

Manufacturers Record

Exponent of America



\$6.50 per Year.
Single Copy, 20 Cents.

Baltimore, Md.
JUNE 9, 1927

All Editorial Matter Omitted From This Issue and the Reason Therefor.

The Manufacturers Record has never hesitated to adopt innovations, break newspaper precedents, or do the unusual thing if the situation seemed to demand it. The unusual thing about this issue is that it contains not one line of editorial matter except this announcement. Many pages of editorials are in type; many are waiting their turn to be put into type; some of them, we modestly believe, are of value. Today, however, we give way to others whose views and news on the flood question are of paramount importance, and outside of the flood discussions there are many things of such unusual interest that, viewed from all angles, we believe this is the most interesting and important regular issue we have ever published.

The Red Cross has compiled especially for the Manufacturers Record a story of what it is doing in the flood district, of the contributions of every city of over 100,000 population, and the quotas asked of these cities, showing those that have exceeded the quotas and those that have fallen short, the total contributions by States, and many details of how the work is being carried on—the first full publication of this kind we believe which has ever been printed in any paper.

The largest regional Chamber of Commerce in the world recently held an annual convention in Texas with an attendance of 50,000, and with a parade five miles long, representing practically all the nations of the world. The story of that convention is a tremendously interesting one and should carry inspiration to every other section of the country. Texas, too, is covered in another story which gives some facts of the wonderful resources and equally wonderful progress of that State, in reply to some slanders widely published by an official of Minnesota, who warned the people of his State against Texas and the South at large. His warning will react to the good of Texas through a study of the facts that are presented in reply.

There are comprehensive reports on the flood control convention in Chicago, and appropriately in this connection comes a review of the possibilities of the St. Lawrence River development project, and also of an All-American Canal from the Lakes to New York.

These, however, are but a few of the many extremely interesting and valuable things to be found in this issue. We shall not attempt to catalogue or enumerate the variety and value of these news articles, the special contributions from leading men, and the vast amount of construction work going on throughout the South, much of it of such magnitude as to almost stagger the imagination as one tries to grasp the full force of all these great undertakings now under way.



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Manufacturers Record

RICHARD H. EDMONDS, Editor

PUBLISHED EVERY THURSDAY BY THE

MANUFACTURERS RECORD PUBLISHING CO.

Office: Manufacturers Record Building, corner Commerce and Water Streets, Baltimore, Maryland
Printing Plant, 8th Floor, Candler Building, Market Place and Lombard Street, Baltimore, Maryland

RICHARD H. EDMONDS, President; FRANK GOULD, First Vice-President; VICTOR H. POWER, Second Vice-President;
I. S. FIELD, Secretary; J. ROBERT GOULD, Treasurer

BRANCH OFFICES:

CHICAGO, 11 South La Salle Street

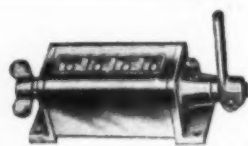
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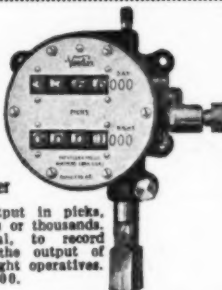
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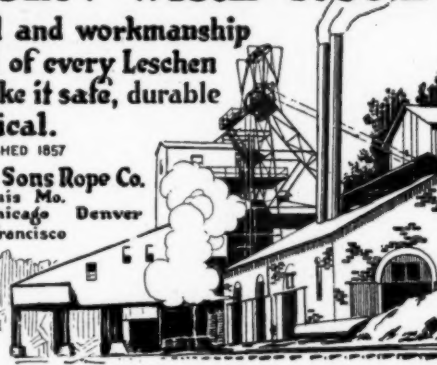
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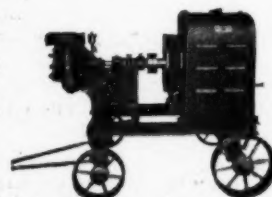


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Manufacturers Record

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Vol. XCI No. 23
Weekly.

BALTIMORE, JUNE 9, 1927.

{ Single Copies, 20 Cents.
\$6.50 a Year.

The Story of the Red Cross Work in the Flood Region.

The American Red Cross.
National Headquarters.

Washington, D. C., June 2, 1927.

Mr. Richard H. Edmonds,
Editor Manufacturers Record,
Baltimore, Maryland.

My dear Mr. Edmonds:

Receipt is acknowledged of your letters of May 25 and June 1 addressed to the Secretary, American Red Cross.

The bases for quotas assigned throughout the whole United States are population, concentration of population, concentration of wealth, and knowledge of local conditions gained through our regular administration of the 3500 local chapters of the Red Cross. Assuming that the original *minimum* goal is \$5,000,000 it is conservative to develop quotas totaling somewhat in excess of that figure and proceed on the original basis of taxing cities having a population of 100,000 or more at ten cents per capita and towns and cities of lesser population at five cents per capita. Those cities in the first group wherein lies the greater concentration of wealth, such as New York, Chicago, San Francisco, Los Angeles, etc., are then arbitrarily doubled, resulting in the quotas being computed at the rate of 20 cents per capita. The resulting quotas of all places are then reviewed by the five administrative assistants in charge of territorial divisions of the United States and adjustments made upward or downward in accordance with the knowledge gained by those officials in their normal work in supervising the chapters in their territories. The effect of all of the above was to produce on the basis of a minimum goal of \$5,000,000, quotas totaling approximately \$6,900,000. In the case of the Mississippi River Valley Flood, as you know these quotas were later doubled. The final result, therefore, was the production of quotas taxing the very large cities with concentration of wealth at 40 cents, the other larger cities of 100,000 population or more 20 cents, and all other places 10 cents, subject, of course, to the adjustments made by the officials referred to above. I might add that in making these adjustments the officials consider all phases of local conditions including character of population, industrial depression, business activity, etc.

There are transmitted herewith statements showing:

1. Number of Red Cross chapters by States and the amount reported collected in each State, together with the total for the United States.
2. Cities of 100,000 or more population which have exceeded their quotas, showing the amount of the quota and the amount reported collected.
3. Cities of 100,000 or more population which have not yet reached their quotas, showing the amount of the quota and the amount reported collected.

I have not attempted to get together information concerning the cities of less than 100,000 population since we have not

heretofore attempted to compile that at Washington and it would be necessary to get it from our branch offices. I trust, however, that the information given in the three statements above referred to will provide you with the material you desire.

For your additional information I am sending you also herewith a brief outline of the activities of the Red Cross in the flooded area and also a statement compiled from the best information at present available concerning the number of disaster sufferers classified by States.

The work which you have been doing and are still doing is outstanding in its stimulation of the drive for contributions for the relief of the Mississippi River Valley Flood sufferers and is very much appreciated by the Red Cross. I hope that the information given you herewith will help you in your work. If there is anything further we can do please do not hesitate to call upon us.

Sincerely yours,

DEWITT SMITH, Assistant to Vice-Chairman.

The following details furnished by Mr. Smith tell their own story and need no comment.

During the emergency period or the actual flood stage the Red Cross has been meeting expenses in connection with:

1. Rescue and transportation of disaster sufferers and their property, including livestock, from their homes to points of safety. This includes the cost of purchasing boats or materials for building boats, the purchase of outboard motors, the rental of boats, the purchase of fuel and other supplies and equipment for boats or seaplanes. In this connection it should be understood that the several departments of the Federal Government, such as War, Navy, Commerce, Coast Guard Service, etc., have made available, on a large scale, such personnel and equipment as they have at their disposal, the expenses in connection with which are being borne by the departments concerned.
2. Shelter of disaster sufferers. This has in large measure been accomplished through the use of tents provided by the Army, the cost of which will not be met from Red Cross funds. However, the Red Cross is meeting all necessary expenses in connection with the equipment of relief camps, such as providing floors for tents, equipment for feeding, water and sewerage connections where necessary, electric wiring and lighting, etc.
3. Food for disaster sufferers and feed for livestock. Disaster sufferers are being fed in concentration camps and are also in many instances being rationed in their own homes. Feed for livestock is being provided in large quantities.
4. Clothing. Large quantities of donated clothing are being distributed and wherever actually necessary clothing is being purchased.
5. Medical and nursing care. Wherever state and local

health resources are inadequate to meet the situation the Red Cross is providing in camps the necessary medical and nursing service, medical supplies, and dispensary and emergency hospital equipment as needed. Where state or local communities are unable adequately to meet the need, their services are being supplemented by the Red Cross as follows:

- (a) By furnishing doctors, nurses, and medical supplies for the immunization of residents of the flooded areas against typhoid and smallpox.
- (b) By assisting in combating malaria with quinine and mosquito control.
- (c) By furnishing supplementary supplies of biologics with which to combat communicable diseases.

As the waters recede and the disaster sufferers return to their homes the Red Cross is giving or will give assistance in the following:

1. Maintenance of disaster sufferers through the temporary supplying of food, fuel, and other necessities.
2. Household furnishings, including furniture, bed clothing, stoves, kitchen utensils, etc.
3. Building and repairs, including the cost of material and labor for such repairing or cleaning of houses and outbuildings as is necessary to make them habitable.
4. Seed, including cottonseed and seed for forage crops such as soy beans, cow peas, etc., to the end that the largest possible acreage may be planted. In this connection the Department of Agriculture has assigned experienced personnel so as to make available to the Red Cross and the disaster sufferers the best possible advice as to the crops which can and should be planted.
5. Feed for livestock to such extent as is necessary to provide for the planting of this year's crop.
6. Livestock and poultry to meet actual minimum needs.
7. Farm implements wherever necessary for the planting of this year's crop.

Assistance in the following matters is not within the scope of Red Cross disaster relief operations:

1. Financial credit to families.
2. Business rehabilitation.
3. Reconstruction of:
 - (a) Churches and benevolent institutions.
 - (b) Public schools.
 - (c) Public roads, bridges, etc.
 - (d) Municipal property.
 - (e) Public utilities.
 - (f) Levees.

Mississippi River Valley Flood Relief Contributions Up to May 31, 1927.

Cities of 100,000 or More Population Which Have Not Yet Reached Their Quotas.

	Quota	Reported Collected
Chicago	\$1,080,000	\$931,000
St. Louis	500,000	388,000
Detroit	400,000	245,000
Cleveland	320,000	243,000
Boston	300,000	284,000
Baltimore	300,000	155,000
Brooklyn	200,000	115,000
Buffalo	200,000	92,000
Cincinnati	160,000	110,000
Seattle	64,000	48,000
Providence	60,000	50,000
Scranton	50,000	26,000
Toledo	48,000	47,000
Akron	42,000	40,000
Syracuse	34,000	28,000
San Antonio	32,000	18,000
Salt Lake City	24,000	17,000
Cambridge	22,000	21,000
Lowell	22,000	13,000
Jersey City	20,000	15,000
Spokane	20,000	13,000
Tacoma	20,000	12,000
Kansas City, Kansas	20,000	6,000
Fall River	18,000	11,000

Mississippi River Valley Flood Relief Contributions Up to May 31, 1927.

Cities of 100,000 or More Population Which Have Exceeded Their Quotas.

	Quota	Reported Collected
New York City	\$1,200,000	\$1,589,000
Philadelphia	500,000	596,000
Pittsburgh	300,000	327,000
Los Angeles	230,000	315,000
San Francisco	230,000	306,000
Milwaukee	92,000	125,000
Washington	90,000	142,000
New Orleans	80,000	101,000
Minneapolis	76,000	106,000
Kansas City, Mo.	64,000	64,000
Louisville	62,000	77,000
Indianapolis	62,000	75,000
Newark	60,000	82,000
Rochester	60,000	60,000
Portland, Ore.	54,000	56,000
Denver	52,000	56,000
Wilmington	50,000	67,000
Columbus	48,000	57,000
St. Paul	46,000	63,000
Oakland	44,000	65,000
Memphis	40,000	114,000
Hartford	40,000	65,000
Birmingham	40,000	63,000
Atlanta	40,000	51,000
Springfield, Mass.	40,000	44,000
Omaha	38,000	47,000
Worcester	36,000	65,000
Richmond	34,000	34,000
Dallas	32,000	67,000
New Haven	32,000	44,000
Reading	30,000	59,000
Nashville	30,000	39,000
Dayton	30,000	35,000
Houston	28,000	50,000
Paterson	28,000	35,000
Grand Rapids	28,000	33,000
Bridgeport	28,000	28,000
Youngstown	26,000	29,000
Des Moines	26,000	26,000
Norfolk	24,000	32,000
Camden	24,000	26,000
Trenton	24,000	25,000
Albany	22,000	34,000
Fort Worth	22,000	23,000
New Bedford	18,000	21,000
Yonkers	15,000	15,000

American Red Cross Mississippi Valley Flood Relief As of May 27, 1927.

State	Disaster sufferers cared for—				Total disaster sufferers to date	
	No. of camps	In camp	Out of camp			
	Max. Now	Max. Now	Max. Now			
Illinois	5 3	500	500	3,700	2,000	4,200
Missouri	18 ..	14,340	.....	6,483	6,483	20,823
Arkansas	62 32	117,038	39,952	49,743	31,913	166,781
Kentucky	2 1	3,864	643	3,537	300	7,401
Mississippi	17 15	69,023	32,078	141,458	121,343	210,481
Tennessee	4 ..	5,155	.....	7,950	2,153	13,105
Louisiana	22 22	64,430	64,168	81,138	81,063	145,568
	130 73	274,350	137,341	294,009	245,255	568,359

Mississippi Valley Flood Contributions by States to May 31, 1927.

	Number of Chapters Reporting	Amount Reported
Alabama	76	\$153,042.11
Alaska	10	3,769.00
Arizona	16	25,567.00
Arkansas	50	97,000.00
California	120	1,067,718.00
Colorado	63	97,000.00
Connecticut	41	254,923.81
Delaware	1	67,500.00
District of Columbia	1	141,853.53
Florida	67	158,334.56
Georgia	100	134,464.79
Idaho	31	18,964.00

	Number of Chapters Reporting	Amount Reported		Number of Chapters Reporting	Amount Reported
Illinois	119	1,154,000.00	South Dakota	66	25,000.00
Indiana	96	346,709.33	Tennessee	87	251,059.17
Iowa	129	198,000.00	Texas	188	338,000.00
Kansas	104	98,000.00	Utah	21	11,317.00
Kentucky	116	193,695.15	Vermont	23	34,982.67
Louisiana	43	210,150.15	Virginia	112	167,622.37
Maine	31	63,977.41	Washington	30	105,986.00
Maryland	22	194,881.15	West Virginia	50	89,637.77
Massachusetts	69	728,211.57	Wisconsin	84	263,000.00
Michigan	81	423,000.00	Wyoming	30	15,000.00
Minnesota	85	273,000.00			
Mississippi	52	135,862.77	Total States	3,272	\$14,374,095.52
Missouri	109	574,000.00			
Montana	49	26,000.00			
Nebraska	102	109,000.00	INSULAR AND FOREIGN CHAPTERS		
Nevada	13	7,381.00	Porto Rico	1	\$1,225.00
New Hampshire	33	50,927.35	Hawaii	1	17,505.00
New Jersey	61	510,224.44	Philippines	1	5,000.00
New Mexico	29	16,000.00	Haiti	1	1,118.35
New York	109	2,533,023.29	Canal Zone	1	1,020.00
North Carolina	115	160,730.30	All other Insular and Foreign ....	..	75,954.64
North Dakota	52	28,000.00			
Ohio	106	859,593.82	Total Insular and Foreign ...	5	\$101,822.96
Oklahoma	68	90,000.00			
Oregon	30	83,488.00	At large		\$47,977.00
Pennsylvania	108	1,635,661.64			
Rhode Island	8	85,601.43	A. R. C. Contribution		\$100,000.00
South Carolina	57	63,234.88			
			Grand Total	3,277	\$14,623,895.48

Dawn of a New Flood Control Policy.

GENERAL JADWIN INDICATES A BROADER VIEW, WHILE GOVERNOR PINCHOT BLAMES ARMY ENGINEERS FOR GREATEST BLUNDER IN ENGINEERING HISTORY.

By RICHARD WOODS EDMONDS.

Chicago, Ill., June 4.

"The 'levees only' policy of the Army engineers and the Mississippi River Commission is the most colossal blunder in engineering history. The Mississippi floods are too great to be longer dealt with in a manner designed for the defense of a position already taken. We can no longer leave flood defense in the hands of Army engineers. We must secure the ablest civilian engineers, business men and economists to work out a complete and comprehensive plan, and that plan must make use of every effective means of reducing flood heights in the river."

Thus, in effect, spoke Gifford Pinchot in addressing the flood control conference on June 3. Gen. Edgar Jadwin, Chief of Army Engineers, seems to have arrived at somewhat the same conclusion, for he told the conference that:

"The need for a revision of the Government project rests primarily on the following propositions: First, that this flood has shown that protection must be furnished throughout against greater floods than those which existing works were expected to meet, even if all works contemplated by the present authorization had been completed; second, levees necessary for the protection of this great endangered region and not heretofore under Government jurisdiction should be brought thereunder; third, the problem is now manifestly national; fourth, the percentage of participation of the heavily taxed districts must be reduced; fifth, the law should be so modified that the Government shall have sufficient definite authority promptly to locate the works where the soundest engineering indicates they should be built, whether this involves larger levees, some strengthened and spaced farther apart, or spillways or reservoirs, or a combination of all these structures."

In explanation of General Jadwin's cautious reference to the need for more Governmental authority, it should be explained that even should the Army engineers reverse their policy and demand reservoirs on headwaters, as all other elements represented at this conference are doing, they

would have no authority under the present law to carry out their recommendations. General Jadwin's reference here, and at other points in his address, to reservoirs on headwaters, even though he speaks disparagingly of them, are of a tenor to suggest that the present catastrophe has jarred him out of his former complete reliance on levees, and that he is carefully preparing for a change of policy.

And in the first line of his following paragraph additional ground is furnished for this inference, for he says: "In the reanalysis of the situation there are many phases. * * * One of the most reliable methods for making this reanalysis, he says, is to study the magnitude of the worst floods of the past. From such a study he concludes: "Present indications are that we must prepare to care for not less than 2,500,000 cubic feet per second."

At this point it is worth while to compare the figures for flood flows in some of the principal tributaries of the Mississippi prepared by Army engineers and quoted at the Conference by E. E. Blake in his address before the resolutions committee:

CUBIC FEET PER SECOND.	
Upper Mississippi	366,000
Missouri	546,000
Ohio	1,350,000
St. Francis	579,000
White	372,000
Arkansas	458,000
Yazoo	132,000
Red	209,000
Washita	75,000
Total	4,087,000

It should be explained that some of the smaller tributaries listed above enter far down the river, and General Jadwin may have been referring to floods likely to traverse a distance from, say, Cairo down. It should be pointed out also that the large total indicated is the peak that would be formed by the meeting of large floods from all of these streams—a combination not heretofore so closely approximated as in this flood.

"The Mississippi River can and must be controlled," said

Secretary of War Dwight F. Davis. "How this is to be done will be one of the major problems before the next Congress."

It was a significant fact that the speakers, without exception, were agreed on one point; namely, that the problem

presented by the river is far more a national one than has ever heretofore been realized, and that the Federal Government must assume more responsibility and set about more thoroughly to handle the burden.

A Woman's Stirring Appeal for the Flood Sufferers.

By MRS. PEARL HARMANSON ATKINSON, Biloxi, Miss.

[Telegram to Manufacturers Record.]

Biloxi, Miss., May 31.

Just returned from the heart of the flood district of Louisiana. Urge Congress to meet without delay and make an appropriation for these stricken people. Delay means death to countless number of our people and to their livestock.

MRS. J. W. ATKINSON.

[Asked by wire for further particulars, Mrs. Atkinson sends the following appealing story.—Editor Manufacturers Record.]

Sorrowful Louisiana! Twice in the history of the peaceful Acadians are they ruthlessly pushed from their homes.

The second epoch in their lives overwhelms the first. As unexpectedly as the British ships approached Acadia, tearing them from their homes, separating families and dispersing them in Louisiana along the beautiful Teche country, came the flood upon them. Men drove fast from farm to farm, from village to village warning residents to flee. Some obeyed, taking their stock with them to seek higher spots; others not believing a flood possible remained, for where could the water come from, was asked by every one.

Engineers with expert exactness calculated the extent of the flood. The National Guards of Louisiana are on duty. Able assistance is given by Coast Guards, who did heroic work in the flood waters of Mississippi, tendering boats for rescue work. Bold charity and courageous deeds are wholeheartedly given by these men, who are used to wars and disasters, but they say nothing is worse than this.

In a far-off place in Louisiana a Coast Guard captain rescued twenty-two men with smallpox. His crew protesting, said: "We are only rescuing flood sufferers"—"These are flood sufferers," was the Captain's quick response and he had them lifted on their mattresses and placed in his boat and had all the crew vaccinated for smallpox, including himself.

Volunteer service by the citizens of these nearby stricken places is a marvel of endurance and charity in rescuing in motor boats people from house-tops and trees and hazarding their lives rescuing drowning cattle.

As the waters descend upon the lower parishes, Red Cross camps spring into existence in the twinkling of an eye. Such organization and capacity for service in a given time on such a large scale is amazing. Alexandria, Opelousas and Lafayette are receiving thousands of refugees in the Red Cross camps at these places. New Iberia, Queen City of the Teche, is receiving water from Spanish Lake. In a few hours the northern part of the city was eleven feet under water and the business section from one to two feet. The Red Cross camp being on a ridge of Spanish Lake receives hundreds daily by train. The Southern Pacific has raised its tracks two feet, a very difficult task as five other lines are operating over the Southern Pacific, the only way out of Southwest Louisiana.

Lafayette has nearly 20,000 refugees in camp. A heavy rain drove the drenched and frightened people from their tents and they sought the school houses for protection. All schools closed instantly and commencement exercises were banished to house the refugees—twice refugees, until the water from the rain passed off. In less than an hour all were moving to their tent city, by the systematic handling of trucks and cars. Texas had sent trucks to help. Volunteer drivers were school boys.

Vigilance is kept by all. School girls serve sandwiches; women sew, making things to clothe the destitute; men do

not return home for even necessary rest so gigantic is the task thrust upon them.

Red Cross nurses tenderly care for little darlings while their parents with babies clinging to them watch, with a vicarious fear of strangers, who speak a different language.

The Evangeline country, our Eden of Louisiana, is now a sea for forty miles and as the waters rush onward to the Gulf, the full extent is not known. But we do know the capacity for caring for all this vast population is limited. The only hope is for our Government to assume the rightful responsibility for damages to these people and send them not as the British did to struggle unaided in new and strange conditions, but to rehabilitate them. Let them look up to a father-mother Government for expedient help.

Will our Government give them a bone, or will it restore a lost milk cow to feed the starving children, and a reasonable amount to make a garden and start a harvest?

"Lord God of Hosts be with us yet,
Lest we forget, lest we forget."

State-Wide Sympathy and Love Created and None Disheartened.

Young Men's Christian Association.

Little Rock, Ark., May 25.

Editor Manufacturers Record:

We can tell you that people are not disheartened, but are going back to their farms and business with renewed energy and a realization that the entire nation is back of them.

It certainly has been a splendid time for community interest and State-wide love to be shown for its citizenship, and with all the great loss of property, money and loved ones, Governor Martineau, and others of us who think, can see beyond these great catastrophes to great good that is to be accomplished. It seems that the Lord works this way; in reading history all down through the ages good has come from these great calamities.

We appreciate your sympathy and interest.

J. B. WITHEE, General Secretary.

Congressman Theodore E. Burton of Ohio Thinks Special Session Should Be Called in October or November.

Washington, May 31.

Editor Manufacturers Record:

I do not think favorably of immediately calling a special session, though it will probably be desirable to convene the Congress in October or November. When Congress acts, it should be after full discussion of the best methods for the prevention of floods. During the ten years or more during which I was Chairman of the Rivers and Harbors Committee, I gave much attention to this subject, and shall do so again when the Congress convenes.

THEODORE E. BURTON.

Danger That Inertia and Public Squabbles May Undo Splendid Start of Chicago Convention.

[Special Correspondence Manufacturers Record.]

Chicago, June 4.

Beyond its formal action on several subjects, the flood prevention convention held here this week by representatives from 27 States is of tremendous importance to the entire Nation on two particular lines:

1. It has given flood prevention advocates an actual, concrete organization in which they can enlist and around which they can rally to perform actual work—it is an agency for the translation of desultory talk into energetic activity.

2. As a continuing body, it can compel the Government in all its branches—Executive and Legislative and even, perchance, Judicial—to bestir itself to actual constructive work over which it has too long slumbered.

For years, communities, States and sections have talked about flood control or prevention. Many actually have formulated policies or done real work in their respective areas. But, the talk and the work have been disjointed and unrelated and, really, of little benefit in the great comprehensive scheme for the relief of the situation as a whole. The fault has not laid at the door of the earnest, sincere, patriotic men of these individual communities, States and areas, but has been due to the fact that there was no common agency through which they could unite their efforts.

Further than this, there has been a disposition to leave possible national legislation in the hands of the United States Senators and Representatives of the various States, in almost childish confidence that these men would concentrate their thought and activities on that particular subject. But, these statesmen have not obtained results. Some have made only a gesture of interest, to placate their constituents. Others have been sincere, but have found themselves confronted by a stone wall of Government indifference, or, it may have been, disagreement among Government engineers, or, more usually, indifference in the chambers of the Senate and the House, in committees or on the floor. Those who have not been actually defeated have been discouraged and have accepted the inevitable.

So, this convention has proved an enlisting point in which all these separate units can unite in a forceful organization.

Moreover, this convention has been a loud speaker for the flood prevention advocates. Their voice has been heard in mighty volume throughout all the land, from the White House to Capitol Hill, through the War Department, in the Congressional districts of each State and by the Senators of all the Commonwealths. The plaintive cry from Louisiana alone had long gone unnoticed; the pleas of Illinois had been unheard; the cries from all the States in the 1,200,000 mile area drained by the Mississippi River had fallen upon deaf ears. But, united in one great chorus they have made a noise which must awaken the most somnolent Government officials and arouse dilatory statesmen.

But, "Let him that thinketh he standeth take heed lest he fall." The greatest menace to this magnificent movement now lies right within its own circle—the danger of reaction and relaxation into undue confidence or belief that the work which has been started will continue of its own momentum—danger that interest will flag as the aroused sections and their representatives turn to other important matters after the convention has become a memory. Throughout the years, observers have seen scores of such movements come to naught—have seen glorious movements peter out through weakening of eternal vigilance. Every resident of the Mississippi basin, from the most influential to the most obscure, must remain

everlastingly on the alert, keen to note every opportunity for work, watchful for lack of interest in any branch and bureau of the Government, awake and ever ready to prod into activity the members of the executive committee whom they have entrusted with the great task of getting action and results on one of the greatest problems confronting the Nation.

Nor are the personal sufferers from the floods and the residents of the Basin States the only groups involved and interested. The disasters of the annual floods affect every State in the Union and every line of industry and business and finance. Conspicuous in the convention were the farmers of the land, through the Farmers Bureau; intensely interested were the lumber interests; organized labor had representatives on the ground; real estate circles were represented, the automobile trade, advertising interests, the grain trade, manufacturers' and contractors' organizations throughout the land, even the ice cream manufacturers and the moving picture business—a thousand and one industries and business groups.

The interest of banking and credit circles was conspicuous. As manager of the central division of the National Association of Credit Men, E. B. Moran said that the 35,000 wholesale, manufacturing and banking institutions in the membership of that organization will be urged to adopt liberal credit policies toward business establishments in the flood districts—but, right here, it may be said that such liberal action cannot be expected each year for an indefinite period, but undoubtedly is based largely on belief that the present flood is to be the last crisis of its kind and that such help will not be necessitated in the future.

"Through this conference, I expect to see a great work done toward bringing the farmers and the people of the cities to a better understanding of the great flood problem," said Ira E. Richardson, expressing the interest of insurance circles.

The gypsum industry sent representatives. Religious organizations were prominent on the scene—it is hard to think of any business, industrial, financial, civic, religious, social or professional interest which did not participate in this convention.

Yet, despite this nationwide interest, the great danger of overconfidence, of trustfulness in unstable agencies, of inertia and of relaxation, hangs over the situation. Much will develop between now and next December to divert Congress to other thoughts. There will be scrambling for juicy committee appointments among the members when Congress does convene, resulting in lack of interest, without mention of possible deals or agreements which well may involve even flood prevention legislation. Nor is practical politics in the Legislative branch the only menace—even greater is the possibility of professional disagreement, not to suggest professional jealousy, among Government engineers and other officials in the Executive departments. "Who shall decide when doctors disagree?" asks an old conundrum, and no deciding authority ever is found in disagreements between bureaucrats at Washington.

One may say this sounds sour and pessimistic. It is not. From long observation as a newspaper man in Washington, I write whereof I know—not in sardonic spirit, but as sounding a note of warning for the hundreds of thousands of trustful, uninformed citizens who do not know conditions.

This convention has made a wonderful start. It has

accomplished indescribable good, as far as it has gone. But, its real value lies in its work in the future through those whom it has named as its executive representatives. If they falter, this week's work will be lost and the days of thought and deliberation and effort will come to naught. It behooves every man and woman and child—for, even the least of the little ones suffers as the result of each flood—to remain awake and watchful, alert and keen, to compel actual aggressive work for, it may be, years to come.

Views of an Engineer Long Identified With River Improvement Work.

Board of Directors,
St. Francis Levee, District.
Bridge Junction, Ark., May 30.

Editor Manufacturers Record:

In response to your invitation to express my views regarding Mississippi River flood control: Better levees I believe must be the major dependence for flood control supplemented by every other beneficial aid which can be economically developed.

Outlets, spillways, reservoirs, reforestation and other methods have been suggested as an aid to the levees in controlling the floods and in so far as any method of helping the flood situation can be economically developed, it should be done. The relative benefit of each method of aiding in flood control, the cost and time required to secure the benefits are important factors for consideration.

Any method of helping the levees and decreasing the height and duration of the floods should be considered, and the construction carried out without delaying the work of constructing better levees. The levees as they exist at present are of insufficient height and section. They require much flatter side slopes and wider base to withstand floods of long duration such as the recent flood which has been standing against the levees practically ever since the first day of last January, a period of over four months.

Sufficient funds have never been provided to construct the levees to a sufficient height and section, much less sufficient to undertake the construction of any of the suggested plans that might relieve the levees somewhat of their over-burden of flood waters.

As I understand the situation, those who believe that levees must remain the major dependence for flood control, are not opposed to the development of any other method or plan which will tend to relieve the levees, but are somewhat fearful that the consideration of the development and construction of such supplementary plans may retard the construction and strengthening of the levees. They welcome any assistance which may be given, but do not want the progress of strengthening the levees to be hindered. They would not for instance, want the strengthening of the levees to be delayed until numerous reservoir sites might be located, surveyed, planned, estimated, adopted by Congress, the funds for the construction appropriated and construction of the reservoirs completed. However, if the construction of reservoirs in certain localities is found to be economically beneficial there is no reason why the levee construction work should be delayed on account of the time necessary for the consideration and construction of reservoirs or other plans.

In my opinion full consideration should be given to all suggestions and plans for flood control, but the construction of reservoirs, reforestation and similar aids to flood control should be carried on at the same time though separately from levee and spillway construction.

If your journal can assist in having all these different methods which may be determined as beneficial considered and developed in such a way that the progress of one will not interfere with the progress of the other, I think you will be doing a real good to the Mississippi Valley and to the whole country and I believe that should constitute your field of endeavor in this matter.

H. N. PHARR, Chief Engineer.

Negroes and Whites Treated Alike in All Rescue and Relief Work.

E. L. Farley,
Cotton Seed—Cotton Seed Products.

Jonesboro, Ark., May 30.

Editor Manufacturers Record:

Week in and week out, the MANUFACTURERS RECORD is so intelligently fighting the battles of the South, that we would appear ungrateful if an occasional word of appreciation be not sent you. At this particular moment I have in mind your refutation on the part of certain press of the North regarding neglect or unfair treatment of the negro race by the white man during the distressing overflow. Fortunately the number of papers in the North who take this attitude, is small. In their ignorance they should receive pity rather than condemnation.

During the several weeks we received refugees in camp here, I worked daily at the Red Cross headquarters, and testify to you that the negroes who were forced to get out of the St. Francis basin, received share and share alike in food and raiment with the white people who came out for the same reason.

Out of my files I have taken carbon of a letter of May 2 addressed to John C. Claybrook, who is a negro planter enjoying the confidence and good will of the white planters in his section. The check I was disbursing from the corporation named, hundreds of miles from the overflowed section, was not the only one sent me for this purpose. In writing Claybrook, you will observe I stated * * * "in making this distribution it is with the idea of rendering help to all people regardless of race or nationality, as all have suffered alike."

The object of sending remittance to a number of sections even in small denominations, was to encourage them in the thought that those who were more fortunate were not unmindful of their distress. So a similar check was sent to a white planter just a few miles from Claybrook. In due time he acknowledged the remittance, saying his delay was occasioned by giving first aid and attention to his tenants—mostly negroes—and that he had them as well provided for as conditions would permit.

In sending you this letter, it is not with the view of occupying your space or getting my own name into print, but it is for the purpose of giving you concrete evidence of the truthfulness of your statements when you deny the uncalled for attacks of our malefactors. For financial gifts; for expressions of sympathy and the desire to assist us in rendering the great Mississippi River impotent in the future, we of the South make appreciative acknowledgement of all that has come from the unbiased press and people of the North.

The Anglo Saxon, of which the South is largely made up, knows not final defeat. In proportion as the white man goes forward, will the negro advance.

E. L. FARLEY.

The letter to which Mr. Farley refers follows:

"Jonesboro, Ark., May 2, 1927.

"JOHN C. CLAYBROOK,
"Simsboro, Ark.

"Dear Sir:

"Hardwicke-Etter Co., Sherman, Texas, have sent me a check to be disbursed over the flooded area, and while you may not have a regularly organized relief association, I am sending you personally a check which you may use for any of your people who are in need. Many of them have no doubt been engaged in timber cutting, saw milling, etc. and with all work cut off, there is evidently need among some of them; and in making this distribution it is with the idea of rendering help to all people regardless of race or nationality as all have suffered alike.

"Yours very truly,

"E. L. FARLEY."

A Great River Conference at Chicago.

A Prearranged Plan Prevented Any Effort to Favor Special Session of Congress—Strong Committee Appointed to Work for Permanent Improvement, But No Direct Effort Made to Secure Federal Aid for Sufferers.

By GEORGE GARNER.

Chicago, June 4.

Under a rainbow of promise, and by determination of the people, that never again shall floods devastate the Mississippi Valley, the Conference on Flood Prevention today formed a permanent organization and prepared for an unremitting and aggressive campaign to compel flood prevention action by the Government. The enacting paragraphs of the resolution to this end were as follows:

"Resolved, That we urge immediate and effective relief be extended to all present sufferers: that the measures which may be recommended by existing Federal agencies for relief to the lower Valley, so as to protect it against a recurrence of the present disaster, be carried out promptly and that the necessary appropriations therefor be made; and,

"Resolved, Further, that, without delaying the carrying into execution of such imperatively necessary measures as may be recommended by existing governmental agencies, the President of the United States is requested to call a conference for the purpose of formulating, in conjunction with such governmental agencies, a comprehensive plan for navigation and permanent flood control, said conference to be composed of army engineers, civilian engineers, conservationists, geologists, financiers, agriculturists and other experts representing the various interests of our country."

Also, the Conference petitions the President and Congress to undertake energetically, and carry to a speedy conclusion, comprehensive and effective measures for permanent flood control of the Mississippi River and all its tributaries.

"Your committee on permanent organization recommends that this Conference constitute itself a permanent organization for the purpose of carrying out the policies here adopted," read the recommendation which was adopted. For the purpose of representing the conference, the committee named an executive committee composed of the Mayors of Chicago, St. Louis, Memphis and New Orleans as chairman and vice-chairmen, with 23 other members at present and provision for about a dozen more.

And this committee, Senator James E. Watson promised, would work energetically and enthusiastically. Should it be necessary, the present Conference will be called into session at any time.

Also, Mayor Thompson of Chicago was empowered and instructed to carry the message of the Conference to President Coolidge, and lost no time in preparing to make the trip before the President should leave for his vacation in the West.

Promise that the present flood should be the last and that prevention work should be started without untoward delay was made by the Executive and Legislative branches of the Government through credited and authorized representatives. Secretary of War Dwight F. Davis spoke for the President and the Executive departments: Speaker Nicholas Longworth and Representative Martin B. Madden, chairman of the Appropriations Committee, voiced the promise of the House, and Senator Watson and Senator Pat Harrison, the former a leading Republican and the latter a prominent Democrat, gave pledges for the Senate. As further evidence of the exclusion of politics in the proceedings, Representative Stephen B. Porter of Pennsylvania, an influential Republican, worked in close harmony with Representative James B. Aswell of Louisiana, a veteran Democrat, and the two made a very strong team.

Beyond these promises, the determination of the people of the North was expressed by delegates from many sections.

Led by the South, more than half the States in the Union participated in the proceedings and spoke in tones which cannot be ignored by any branch of the Government. Even General Edgar Jadwin, chief of the army engineers, gave heed and confessed that the magnitude of the problem and the task had not been realized in the War Department. The flood threat "is less serious only than war itself," said General Jadwin, and urged that it be met without delay by the Nation as a whole.

The wisdom of the Conference, through its committees, in declining to weigh the possible merits of concrete prevention plans submitted to it was shown in the large number and wide variety of the suggestions offered. For instance, one man urged that electric propellers be installed in the Mississippi River, to accelerate the current and so prevent overflow. By another, a great canal was urged, to run north and south through the entire length of the country, to irrigate arid spaces and to turn the wheels of industry along the route. Scores of men offered scores of suggestions, and each was accorded courteous and patient hearing. But, the solution of the problem, it was felt, must be devised by a collection of master minds in engineering, forestation, drainage, geology and kindred subjects.

And still another achievement of the Conference or convention—the words are interchangeable—was the awakening of the entire country. As a publicity expert, Mayor William Hale Thompson of Chicago has few equals and no superiors, and he had mobilized a force of men to keep the scores of newspaper representatives supplied with an abundance of material on every line.

The country, marvellously ignorant of the flood menace and of flood disasters, has been informed on the situation. The country, partly inert because of its ignorance, has been awakened to realization of the gravity of conditions and has been aroused to the necessity for flood prevention. The Executive and the Legislative branches of the Government have been notified that neglect must give place to remedial action, and that without loss of time. Bureaucrats have been warned that the people of all the land will not tolerate such somnolence any longer. The Government engineers have been made to realize that they had failed to grasp the magnitude of the job and have been shown, if not convinced, that they cannot solve the problem without civilian aid. The business, industrial and financial interests of the country have grasped the fact that the flood losses are not confined to the stricken sections, but run into every corner of the country.

Following the preliminary organization of the Conference, the real work was turned over to a committee on resolutions and a committee on permanent organization, Senator Watson acting chairman of the former and Senator Harrison of the latter. During their deliberations and hearings, the 2500 delegates present discussed flood conditions and listened to speeches by men of national prominence.

As the result of its labors, the committee on resolutions brought in the following platform, which was adopted by the Conference:

"Whereas, the time is here for the Federal Government to attack the flood problem in a broad and comprehensive way, because of the present Mississippi Valley disaster, the greatest of its kind in the Nation's peacetime history, result-

ing in an incalculable amount of damage to life and property; and,

"Whereas, the need for a comprehensive plan of national flood control is made apparent by this disaster and there are in general three major proposals for flood relief set up by competent authorities—that is, levees, spillways or by-pass outlets, and storage reservoirs, all of which should be considered; and,

"Whereas, it is contended that this problem cannot be adequately met by the application of any single remedy, and that levees, spillways and reservoirs should be used in combination where practicable, together with such additional remedies as may from time to time be developed; and,

"Whereas, floods in the Mississippi basin have not only brought disaster to those immediately concerned, but have resulted in economic loss to the whole Nation, and the people of this country now demand that effective and permanent remedies be applied, and they will willingly approve the expenditure of the public money necessary to this end; therefore, be it

"Resolved, That the Flood Control Conference, assembled at Chicago, Ill., does hereby declare that the control of the flood waters of the Mississippi River and all its tributaries is a national problem and that the sole responsibility therefor should be assumed by the national Government; and,

"Resolved, Further, that we urge immediate and effective relief be extended to all present sufferers; that the measures which may be recommended by existing Federal agencies for relief to the lower Valley, so as to protect it against a recurrence of the present disaster, be carried out promptly and that the necessary appropriations therefor be made; and,

"Resolved, Further, that, without delaying the carrying into execution of such imperatively necessary measures as may be recommended by existing governmental agencies, the President of the United States is requested to call a conference for the purpose of formulating, in conjunction with such governmental agencies, a comprehensive plan for navigation and permanent flood control, said conference to be composed of army engineers, civilian engineers, conservationists, geologists, financiers, agriculturists and other experts representing the various interests of our country; and,

"Resolved, Further, that the Conference petitions the President of the United States and the Congress to energetically undertake and carry to a speedy conclusion comprehensive and effective measures for permanent flood control of the Mississippi River and all its tributaries."

An Executive Committee to Keep Aggressively at Work.

In recommending the establishment of a committee to represent the Conference as a permanent organization, the committee on that subject suggested that there should be at least one member from each State wholly or in part in the Mississippi watershed, and presented the following names:

Executive Committee—Mayor William Hale Thompson, Chicago, chairman; Mayor Arthur J. O'Keefe of New Orleans, Mayor Victor J. Miller of St. Louis and Mayor Rowlett Paine of Memphis, vice-president.

Members-at-Large—Former United States Senator William Lorimer, Illinois; Roy O. West, secretary Republican National Committee; W. K. Kavanaugh, St. Louis, coal operator; R. S. Hecht, New Orleans, banker; Charles H. Burras, Chicago, manager National Surety Company; John Walker, president Illinois Federation of Labor.

Members—Former United States Senator Leroy Percy, Mississippi; James M. Thompson, publisher New Orleans Item, Louisiana; Governor John E. Martineau, Arkansas; Edward J. White, vice-president Missouri Pacific Railroad, Missouri; George E. Leach, Mayor of Minneapolis, Minnesota; J. M. Dickinson, former Secretary of War, Illinois; W. W. Marsh, manufacturer of farm implements, Iowa; Charles M. Lewis, capitalist, Kentucky; former United States Senator Luke Lea, publisher, Tennessee; Oscar Barrett, Ohio; former United States Senator Gilbert M. Hitchcock, Nebraska; State Senator W. H. Markham, Wisconsin; A. Hurley, engineer, New Mexico; S. W. Thompson, North Dakota; Thomas Taggart, Democratic National Committeeman, Indiana; W. M. Jacoby, secretary Pittsburgh, Flood Commission, Pennsylvania; Tom Harrill, engineer, Oklahoma.

The Governors of Montana, Wyoming, Colorado, Alabama,

Texas, West Virginia, South Dakota, Arizona, Kansas and Michigan will be requested to appoint delegates from those States, and Representative Wallace C. Dempsey, chairman of the Committee on Rivers and Harbors, was added to the committee. Members of both branches of the Congress were omitted, because, "Inasmuch as a large portion of the work of the executive committee will be in presenting a petition to Congress, it will be more fitting that the petition be presented by conferees other than members of Congress," though the wholehearted cooperation of the Senators and Representatives from the Mississippi Valley was assured.

Called by Mayor Thompson, Mayor O'Keefe and Mayor Miller, the Conference assembled on Thursday in the great ballroom of the Sherman Hotel and Mayor Thompson was made permanent chairman. Every comfort and convenience was assured to the visitors by Mayor Thompson and Charles H. Burras, his Fides Achates, and the people of the city extended every courtesy and hospitality to the delegates.

Representing the agricultural interests of the land were George M. Peck, chairman of the North Central States agricultural Conference; Representative Gilbert Haugen, chairman of the Committee on Agriculture; Representative Dickinson of Iowa, a member of the Farm Bloc; Sam H. Thompson, president of the American Farm Bureau; United States Senator Smith W. Brookhart, Iowa; W. H. Settle, president of the Indiana Farm Bureau Federation; A. D. Lynch, director of the Gary marketing department of the Illinois Agricultural Association, and many others.

Militant Delegates Who Wanted Special Session Were Duly Tamed by Cut and Dried Plans.

While many of the more militant delegates regretted that the conference did not take more aggressive action, it must not be said to have labored and brought forth merely a mouse. Some of these militants remained unreconciled till the gavel fell for adjournment, but a majority of them accepted the situation with good grace and looked hopefully to the future.

Almost unanimously, these militants, and many others, had come to Chicago with hope, and even with determination, that the convention should demand a special session of Congress, to provide financial relief for the thousands of suffering men and women and children in the flooded regions and to name a commission to formulate a policy for Congress to put into effect at the regular session, to open on the first Monday in December. Their views, in a general way, were expressed by Representative James B. Aswell of Louisiana, who urged a special session, to appropriate \$300,000,000 for reconstruction work, to provide for preliminary work on prevention plans and to get ready for quick work by the regular session. Also, Mr. Aswell suggested that the Mississippi River Commission now should resign and leave the field open to President Coolidge to appoint a new general commission, to be composed of eminent civilian engineers, as well as Government engineers, and other authorities on such flood prevention work. As he expressed it to me:

"This \$300,000,000 not only would provide for the reconstruction of bridges and roads and so on, but also—and this is of far more importance—would give remunerative employment to thousands of persons who have lost their all and who need money and work. Louisiana alone needs more than \$50,000,000, not as a loan, but appropriated outright for rebuilding material and labor, which labor the people are ready and eager to perform.

"Also, the President should name a national flood control commission for the purpose of having the whole problem studied. The time has passed for men of mediocre caliber to be trusted to control the flood waters of the Mississippi Valley. Through a special session, much will be accom-

plished before the regular session, which is six months away."

Such was the general sentiment of, very probably, a substantial majority of the delegates on their arrival. Sentiment was strong for a special session and arrangement for preliminary prevention study and work, and belief seemed settled that this recommendation would be adopted.

On arrival, even before the opening date, these visitors found that their hopes and expectations were doomed to disappointment. In no uncertain terms they were informed that a special session would not be advocated, and far less be urged, and that the conclusions of the convention would be rather conservative. The more militant visitors were told outright to be good, while the more amenable were soothed with explanations and with honeyed words.

As a matter of fact, the policy of the convention was settled beforehand by a few guiding minds, and conservatism was made the watchword. Early on the ground were Senator James E. Watson, regarded as the representative of the Administration; Senator Pat Harrison, a Democratic and Southern leader; Representative Martin B. Madden, chairman of the all-powerful Appropriations Committee, and Representative Frank R. Reid, chairman of the House Flood Control Committee. Senator Harrison at heart wanted a special session; the others named, as representatives of the Administration, were opposed to it. Just what arguments, and persuasions were brought to bear on Senator Harrison cannot here be told; but, in short time he was convinced that a special session call was out of the question and he fell into line for the sake of peace and harmony. Indeed, harmony—that is, political harmony—was demanded in the circles which controlled the convention. "We are going to have harmony if we have to fight for it," said one of these leaders to me, and though he spoke in indicated jest there was earnestness behind his words.

Delegates Promptly Taken in Hand for Harmony.

So, as the delegates poured into the city, individually and in pairs and in groups, they were taken in hand and lined up for support of the program prepared in advance. Even the most determined were convinced by the missionaries that they would do well to suppress their aggressive views, and even the most obtuse soon saw that it would be wise to be good and play with the leaders.

Not that the leaders were not eminently sincere in their desire for the best results obtainable, but they were determined that the entire procedure of flood resolution, from the opening of this convention to the hour when the President may sign some flood prevention measure, should be in accord with the policies and wishes of the Executive branch of the Government and also that no plan should be advocated which would tend to take flood prevention policies and activities out of control by the Congress.

In a convention of such size, and marked by so many and such wide divergences of opinion, it was necessary that a leadership should be established and that a program should be prepared, to prevent confusion. The leaders appear to have done the best they possibly could under existing conditions—governmental, political and practical—and the people of the flood States will have to be content with what was accomplished.

The convention has done a great work.

But, the convention, through its executive committee, has an equally great work ahead, and it seems determined to carry that work to conclusion. As Senator Watson expressed it to me:

"This executive committee will keep everlastingly on the job until flood prevention legislation is enacted and flood prevention work is well under way—indeed, till that work

is finished. The committee will not stop when it has presented the resolutions of this convention to the Executive and Legislative departments. It will remain active and will not sleep for an instant on the job."

The Administration's Plans Outlined.

"The attitude of the Administration was thus set forth by Secretary of War Dwight F. Davis:

"The present emergency presents three main phases: First, rescue and relief assistance to the stricken people; second, their rehabilitation in their old homes, and, third, the prompt adoption of control measures which will insure against similar disaster. The first two phases are well in hand. There remains the problem of the control of future floods.

"The necessity for adequate flood protection is so essential, the magnitude of the problem is so huge and involves the obligation of such vast sums, that hasty action would be extremely ill-advised. It will take weeks to collect all the data on this last flood and then analyze it and fit it into the mass of information previously available. However, no unnecessary delay will be permitted.

"In discussing with the chief of engineers the procedure to be followed, I have emphasized the importance of approaching our problem of the Mississippi with open minds. It is the intention of the Mississippi River Commission to hold public hearings, in order to secure an expression of opinion from all interested persons or parties concerned. Any solution that offers hope of success will be tested as to both engineering and economic features. Recommendations must be ready for submission to Congress when it convenes. The plan adopted must be sound as to its engineering and as to its economics. It must be workable. Our plan must provide for the maximum flood that it seems reasonable to expect.

"The control of floods in the Mississippi Valley is a national problem."

With all that, the convention, in the main, agreed. But, no enthusiasm was conspicuous when Secretary Davis said that "the War Department controls the services of the greatest corps of river engineers in the world." The delegates did not cheer when he continued that "they have tackled many large problems and always have made good." For, feeling was strong and virtually unanimous that the army engineers alone should not be entrusted with this tremendous responsibility. The enlistment of civilian engineers is regarded as an imperative necessity—the enlistment, first of the engineers of railroads and other great corporations which have hundreds of millions of dollars invested in the flood regions, and property worth hundreds of millions of dollars endangered—and much of it lost—in floods even less serious than the present disaster. Specialists will be needed in the lines of geology, of forestry and of drainage. The ablest men in the country on these and other lines must be enlisted. The job is too great for army engineers, or any other one body of professional men to handle unaided; it is a supreme work which demands a tremendous diversity of abilities.

And so it was that the leaders of the convention determined at the very outset that no specific policy or plan for flood prevention should be discussed or adopted by the committees or delegates. Probably, 100 men had plans to offer, and none of these plans agreed in detail with the others and mighty few were in accord on even broad, general lines and principles. For the convention to decide on any one, or one dozen, plans was impossible, and the leaders screwed down the lid on the supply offered for consideration.

As a matter of fact, the convention was wonderfully well managed. It was conducted in businesslike, orderly fashion. There was mighty little friction and even less lost motion. For instance, as originally planned, the committee on resolutions was to consist of 15 members; yet, as the hours passed, nearly a dozen other men appeared and demanded that they be included, also. "Why, certainly; come right in and be a member," said Senator Watson to each such man, and thus the committee grew ultimately to pretty large proportions.

Patient hearing was accorded to every man by each committee; each speaker before a committee felt that he was receiving real attention, and not perfunctory toleration. The views of each were given genuine consideration, besides the customary courtesy. It was not necessary to "fight" for the "harmony" which the leaders wished to characterize the entire meeting.

So, too, on the floor of the convention hall, the speakers were heard with interest. A desire to learn was far more evident than mere patience for a man making a speech. Probably, each man in the audience believed that he held pretty near the real solution of the flood prevention problem; yet, each was anxious to hear other men's views and was ready to modify his own, if convinced that he was not 100 per cent right.

On adjournment of the Conference on Saturday, many delegates hastened back to the stricken section in the South and some went on to Washington, to start work, without loss of time, on flood prevention study and legislation.

Unquestionably a National Problem.

Howerton Engineering Company.

Asheville, N. C., May 27.

Editor *Manufacturers Record*:

Flood prevention along the Mississippi River is unquestionably a national problem, and the national government should take such action as to insure as immediate and permanent beneficial results as possible. A commission should be appointed by the President, consisting of engineers and business men, choosing those who know the Mississippi River situation from actual study and experience. This commission should submit a report, outlining a plan for flood relief, to the next session of Congress. A special session at this time would be premature and could accomplish nothing because they would not have the required information from which to formulate a plan. As for immediate relief of the flood sufferers, the Red Cross and other agencies are equipped and already upon the ground and are capable of handling relief work satisfactorily.

It would seem advisable to include the entire drainage area of the Mississippi River in a drainage district, divided into zones of proportional benefit for the purpose of making assessments with which to carry on its share of the work of eliminating the flood hazard. The national government should be assessed as a whole for perhaps 35 per cent of the entire cost of the project; the remaining cost to be borne by the above mentioned district, in the manner suggested.

Reconstruction should begin on the lower reaches of the River and be extended progressively upstream as rapidly as practicable. The levee system should be employed, first straightening out the old channel to give as nearly a direct course as possible, the new channel to be of sufficient depth and width to carry the average discharge of the river, and paralleling this channel, new levees to be built from the material dredged from the new river channel, and such other material as required, width between levees to be from two to three miles. Spillways and additional channels to be provided near the mouth of the river to facilitate discharge of flood waters if found necessary.

The question of impounding reservoirs is one which will require further detailed study, to prove its value.

E. L. HOGEMAN.

Burlington, N. C., Gave Four Times Its Quota.

The Burlington Daily Times.

Burlington, N. C., June 3.

Editor *Manufacturers Record*:

We notice in your issue of June 2, that you are desirous of knowing what towns have exceeded their Red Cross flood relief quota. The quota for the city of Burlington was \$500, and we raised \$2100. We are justly proud of this record and feel that our people were moved by this calamity to give out of the goodness of their hearts for this great cause.

We want to say that we are a constant reader of the *RECORD* and consider it the most valuable publication on our desk.

O. F. CROWSON, JR., Editor.

A Mississippi Flood As Seen by De Soto's Expedition in 1543.

[From *Engineering News-Record*.]

A great flood which occurred in the Mississippi River in 1543 was described by Garcilaso de la Vega in a history of De Soto's Expedition on the North American Continent, entitled "La Florida del Inca." It is a record that goes a long way toward proving that deforestation has had little or nothing to do with the floods which occur in the Mississippi valley. The volume containing the description of the flood was found by Glenn W. Caulkins, superintendent of schools, Cashmere, Wash., while in Peru. A translation of it was published recently in the *Wenatchee Daily World*.

The account begins by describing how Fernando De Soto sailed from Havana, Cuba, in 1539, landed at what is now Tampa, Fla., and traversed Florida, Georgia, North and South Carolina, and Alabama. He crossed the Mississippi, which he called the Rio Grande, near Memphis and traveled through Arkansas and Louisiana, returning to the Mississippi, where the remnants of the expedition while preparing boats to go down the Mississippi to reach Mexico were attacked by Indians. At that juncture a flood occurred in the Mississippi which was described as follows:

"Then God, our Lord, hindered the work with a mighty flood of the great river, which, at that time—about the eighth or tenth of March (of 1543)—began to come down with an enormous increase of water; which in the beginning overflowed the wide level ground between the river and the cliffs; then little by little it rose to the top of the cliffs. Soon it began to flow over the fields in an immense flood, and as the land was level without any hills there was nothing to stop the inundation.

"On the 18th of March 1543, which that year was Palm Sunday, when the Spaniards were marching in procession the river entered with ferocity through the gates of the town of Aminoya, and two days later they were unable to go through the streets except in canoes.

"The flood was 40 days in reaching its greatest height, which was the 20th of April, and it was a beautiful thing to look upon the sea where there had been fields, for on each side of the river the water extended over twenty leagues of land and all of this area was navigated by canoes, and nothing was seen but the tops of the tallest trees.

"On account of these inundations of the river the people build their houses on the high land, and where there is none, they raise mounds by hand, especially for the houses of the chiefs; the houses are constructed three or four stages above the ground, on thick posts that serve as uprights and between uprights they lay beams for the floors, and above these floors which are of wood, they make the roof, with galleries around the four sides of the house where they store their food and other supplies, and here they take refuge from the great floods. The floods do not occur every year, but when in the regions where the rivers have their source there have been heavy snows the preceding winter with rains in the following spring; and thus the flood of that year of 1543 was very great on account of the heavy snow which had fallen the preceding winter. These floods occur every 14 years, according to what an old Indian woman told us, which can be verified if the country is conquered as I hope it will be.

"Towards the end of April the flood began to subside, as slowly as it had increased, so that even by the 20th of April the Spaniards were unable to walk in the streets except by wading in the water.

"By the end of May the river had returned within its banks."

Senator Edwards Heartily Endorses Special Session.

Hon. Edward I. Edwards of New Jersey writes: "I thoroughly agree with the sentiments contained in your letter of the 10th instant, and am glad to advise you that I have already communicated with President Coolidge requesting a special session of Congress for the purpose of enacting Mississippi Flood relief legislation."

Flood Control by Flood Prevention.

Conference Overwhelmingly Favors Co-operation to Secure a Reduction of Flood Heights to Safe Levels.

By RICHARD WOODS EDMONDS.

Chicago, June 2.

Civilian engineers in attendance on the Flood Control Conference are convinced from long study of the river problem that:

1. The levees only policy is futile.
2. That while levees are necessary, flood heights must be reduced by a comprehensive system of reservoirs.
3. They hold that while the mighty floods uniting below Cairo can never be controlled, those floods are made up of small streams; that every one of those streams is amenable to control to a certain degree, some more than others, and that if every stream whose control by dams and reservoirs will pay its way in power generation, navigation or irrigation is so harnessed, the flood height in the Mississippi will be very materially lowered.

Such a program, they point out, contemplates no expenditures for flood control. Therefore, they maintain:

4. There are many other streams on the system whose control cannot be made to pay expenses by either power generation, improvement of navigation or irrigation; and they argue that such streams should be controlled by such systems as may be found suitable and the expense charged to flood control.

Such a plan, it is argued, would reduce the flood heights at least one-third and since it is the flood crests that do the damage, would thereby reduce the floods to proportions that the lower river channel reinforced by levees might conceivably be made to carry in perfect safety.

In support of this position, it was pointed out that the Army Engineers themselves have made exhaustive surveys on one of the great flood offenders of the system—the Tennessee River—to prove that flood heights could be greatly reduced, low water States greatly reinforced, and the primary power at the Muscle Shoals power plant multiplied several times, and that the improvements would more than pay their way as private enterprises without charging one cent to prevention of floods on the Ohio or Mississippi. It was pointed out that power companies in order to earn dividends for their stockholders by generation of year-round power, have completely eliminated floods from certain rivers in the southeast such as the Tallassee and the Tallulah; and that while not all rivers are amenable to so high a degree of control, all of them may be controlled to a certain extent.

Engineers, Senators and Congressmen interested in various rivers and river systems pointed out the advantages to be gained, first by their own sections and then by the lower valley, through impounding of waters on the upper reaches; each an example of enlightened self-interest—an example of seeking a great benefit to the home section in a means calculated to benefit the nation. Thus, Senator Gerald P. Nye of North Dakota explained how 25 per cent to 30 per cent of the flood of the Missouri River could be diverted from the Missouri to the Cheyenne, stored, used through the dry season by many Dakota cities, and finally poured, not into the Gulf of Mexico, but through the Red River of the North into Hudson Bay.

Ernest E. Blake, Chairman of the Committee for Interstate Control of the Arkansas River system described exhaustive surveys undertaken by the States drained by that system for their own protection from devastating head-water floods, and declared that the plan adopted by his committee would reduce the Arkansas River floods by one-third, a result which, he believed, could be equalled on all the other tributaries of the Mississippi.

For several years chairman of the Commission of Drainage

Irrigation and Reclamation of Arkansas, Mr. Blake spoke from a wealth of experience gained by years of study of the Arkansas River system. He said:

"Oklahoma years ago set about to determine the practicability of control by impounding flood waters on the tributary streams, we soon discovered that local efforts would be expensive and futile and, since many interstate streams converge in Oklahoma it involved interstate and national relations and cooperation. We reached two conclusions and two questions.

"First conclusion: We have more water all the way down the tributaries of the Mississippi than we have prepared for, with promise of increasing heights of flood in the future.

"Second conclusion: We have taxed and neglected the greater population and the greater property on the intermediate reaches in the false protection, and false promise of protection of the lower reaches.

"Question 1: Shall we have less water, or more levees? We have just been through the South; they want something else besides levees, and they want less water. We have been through the middle section; they want less water and no levees. We have been around the top; they want more water and no more levees.

"Question 2: How can we please them all?"

Mr. Blake then told of the organization of an Interstate Commission, including all 9 States drained by the Arkansas and the Red Rivers. Study of that commission found levees not practicable and river straightening a criminal error. "It, therefore, became a matter of cutting down flood flow instead of fighting its apex," the commission concluded. More than a hundred engineers contributed to the plan finally adopted by the commission and outlined by Mr. Blake. The important feature of that plan is the determination that the channel of the Arkansas could safely carry two-thirds of its flood flow; the damage was done by the last one-third. It was decided therefore to construct reservoirs capable of impounding one-third of the flood run-off, such reservoirs to be consistently and comprehensively distributed among the headwater tributaries. Said Mr. Blake:

"This development will reduce the Arkansas more than one-third of its flow at and above Little Rock, save southern Arkansas and Louisiana, would have reduced the 1916 and 1927 Mississippi flood crests below the confluence of the Arkansas from 3 to 5 feet, and would reduce the average Mississippi flood crest 2 to 4 feet; insure stages of water from 6 to 9 feet in the Arkansas from some point in Oklahoma to the Mississippi, thus insuring navigation all the year around."

A similar development is planned for the Red River, in Mr. Blake's words:

"Reducing the Mississippi flood crest about one foot, protecting western Louisiana and promising navigation as far as Texarkana, or if greater storage be built, probably to north of Dallas or Fort Worth. Already over 500,000 acre feet of permanent storage for use in Texas is installed on the Wichita tributary, completely controlling it."

Mr. Blake made a careful analysis of the benefits of such a system. Besides flood control, or the prevention of devastation of rich lands along these tributaries as well as along the Mississippi, he mentioned greater security of railways, highways and all bridges. Under the head of navigation, he said, "Such enormous quantities of storage over such a wide area promises consistent stream flow," and quoted the Mississippi River Commission to the effect that the plan outlined would insure a year-round flow of 8000 second feet, thereby giving a 12 foot mean depth for navigation. To which he adds:

"Our economists figure that this would benefit the agricultural part of the drainage basin \$20,000,000 per year, exclusive of all benefits of flood control. That, as an economic

factor, it would represent a benefit of \$200,000,000 and that in commercial turn-over it would mean an increase of \$500,000,000 per annum, and this should interest the ears of the bankers and business men attending this conference, from commercial cities. Under such circumstances, the coal, lime, timber, zinc, lead, cement and other cheap-moving commodities of the basin would find ready market in the great commercial centers of Pittsburgh, Chicago, Detroit, and Cleveland, New Orleans and St. Louis, whereas now they do not get out at all. Such a regulated river would not require locks, dams or so much extensive repeated channel dredging or improvement, as it would not be subject to the changes of bed or

dangers of a stream which at one time is a raging torrent, and at another time a succession of pools and riffles."

Under the head of electric power, Mr. Blake claimed little or nothing in his address, but admitted in private conversation that the plan does contemplate very large hydro-electric development at very low cost per horse power. Mr. Blake was entirely in harmony with the prevailing sentiment of the Conference on the following points:

(1) The problem is national in scope, and can only be handled by the federal government.

(2) Levees alone are utterly inadequate. Reservoirs must be used to relieve the strain on them.

Organizing for Financial Relief in Arkansas.

[Special Correspondence Manufacturers Record.]

Little Rock, Ark., June 2.

The Arkansas Flood Commission was created by Gov. John M. Martineau of Arkansas, with H. C. Couch as chairman, following a conference at Memphis of Governor Martineau, Secretary of Commerce Hoover, Mr. Couch, Col. John M. Fordyce and other leaders, on April 30. Advisory and general committeemen to head up different phases of the work were appointed by Mr. Couch and Governor Martineau on May 1, making the entire staff as follows:

H. C. Couch, director. Advisory Committee—Gov. John E. Martineau, Senators Joe T. Robinson and T. H. Caraway, Congressmen W. J. Driver and Tillman B. Parks; L. W. Baldwin, A. B. Banks, H. L. Rammel, R. E. Lee Wilson, W. C. Ribenack, Creed Caldwell.

General Committee—H. C. Couch, chairman; C. L. Thompson, vice-chairman; David F. Tilley, Red Cross activities; Dr. C. W. Garrison, State Health Officer; J. R. Wayne, Adjutant General; J. C. Conway, assistant all departments; A. B. Banks, finances and banking; John R. Fordyce, drainage and flood control; Roy L. Thompson, wholesale merchants; Harry Cook, county judges; John Stinson, agriculture; Walker Jones, general information; J. Carroll Cone, aviation; T. Roy Reid, United States agriculture; C. J. Mansfield, lumber; E. J. Bodman, railroads and agriculture.

The first task was to ascertain the extent of losses. County committees were named in each of the 31 counties shown to have been affected by the floods. Blanks for reports by individuals of losses and requirements for immediate needs and to resume farming were sent to the committees by airplane, auto and mail. Meanwhile plans for establishing the company to help finance rehabilitation were carried on. This plan was the result of discussion by Mr. Hoover and Mr. Couch and A. B. Banks, chairman of the finance committee of the commission.

Tabulation of reports of losses and needs indicated that hundreds would be unable to finance themselves locally. To ascertain the extent of co-operation to be expected from the Federal Intermediate Credits bank a committee was sent to Washington to confer with Secretary Mellon, Mr. Myer and others of the Treasury Department and farm loan board. This committee was composed of W. A. Hicks, banker, Little Rock; Jo Nichol, banker, Pine Bluff, and Joe T. Robinson, United States Senator from Arkansas and Democratic leader in the Senate. These gentlemen were greatly encouraged by their reception and the assurances of co-operation to the fullest extent permissible under law. Briefly, it was agreed that the Intermediate Credit bank of St. Louis would rediscount notes to the extent of four times the capital of the local credits corporation. A \$1,000,000 corporation was launched and subscriptions to stock were solicited. When

some \$300,000 had been subscribed the company was incorporated under the name of "Arkansas Farm Credit Company," with authorized capital of \$1,000,000, and it began to function. The officers are W. A. Hicks, president; Jo Nichol, Roy L. Thompson and M. W. Hardy, vice-presidents; F. W. Niemeyer, secretary-treasurer; A. D. Foster, assistant secretary and office manager. Directors—H. C. Couch, chairman; A. B. Banks, M. W. Hardy, W. A. Hicks, W. C. Hudson, Jo Nichol, F. W. Niemeyer, Joe T. Robinson, G. L. Thompson, Roy L. Thompson, R. E. Lee Wilson and Moorhead Wright. Offices are in the Home Insurance Building in this city.

In addition to the officers and directors and advisory board, advisory boards for the several counties were appointed. These advisory boards or loan committees, as they are called, receive and pass upon applications. If approved, the application is forwarded to the Credit Company's headquarters, where the executive committee of the company considers it and, if approved, the loan is made.

The executive committee is composed of bankers and other business men, the motive being to have the decisions based on need and advisability as well as security. This committee is composed of W. A. Hicks, banker; H. C. Couch, public utilities head; Roy L. Thompson, head of a printing house; C. L. Thompson, architect; Moorhead Wright, banker; Jo Nichol, banker and planter; M. W. Hardy, head of wholesale grocery company. A. D. Foster, banker, of Pine Bluff, who is the manager of the credits company, is the only salaried member of the official personnel.

Conferences with Secretary of Commerce Hoover, David L. Feiser and other officials of the Red Cross by flood commission officials resulted in co-ordination of plans for providing relief and helping in rehabilitation, and county committees were merged in order to facilitate the work.

The Red Cross had come in immediately following the first of the flood, handled rescue work, established camps for refugees and extended other relief.

It was determined that the Red Cross would go further than provide for relief of the destitute; that, while its policy would continue to be to dispense according to need and not according to loss, it would make provision for supplying farmers with sufficient feed and seed, food and shelter to enable them to get back to their farms and to plant crops. Financing of further activities would be left to local banks, to supply men and and to the Farm Credit Company in the event the individual could not obtain financing locally.

Responses to invitations to take stock in the Farm Credit Company were very gratifying, particularly by large companies and utilities. Telegrams sent by Mr. Couch, who is president of the Arkansas, Mississippi and Louisiana power and light companies, known as the Couch companies;

by Mr. Banks, head of the Home Insurance companies; Mr. Thompson and others brought in a number of large subscriptions. The General Electric Company, for instance, subscribed \$10,000; the Electric Bond and Share Company \$10,000; the International Shoe Company \$20,000; Middle West Utilities \$10,000; Electric Power and Light Company \$10,000.

To carry on the emergency rehabilitation work the Red Cross, at Mr. Hoover's suggestion, set up an emergency preliminary fund of \$500,000. This was reallocated at conferences between county committees, Mr. Couch and David L. Tilley of the Red Cross, \$472,000 being authorized in grants to some 21 counties. It was made clear that this is not final; that if it is proved there is need for more, the Red Cross will make provision to meet these needs. The money apportioned covers sums for emergency fund, seed and feed, implements where all was lost, livestock, work stock, cows, chickens, temporary supply of food, household furnishings and temporary buildings and repairs to provide shelter. This \$500,000 is in addition to \$732,550 already expended by the Red Cross for the same purposes and to \$250,000 expended by local chapters from funds in the local treasuries. Some 15,000 packages of vegetable seeds and plants have been sent out by the Red Cross through the county committees in order that the farmers may provide as much of their own subsistence as possible.

The credits company will make the loans necessary to finance those who cannot otherwise finance the crops.

Most of the flood waters in Arkansas have receded and thousands have gone back to their farms. The work is well organized and planned, and county committees have arranged for farmers to get back to their lands as rapidly as the water recedes. There is no despair. The situation is most encouraging. Farmers are showing courage and optimism. With fair weather good crops will be made.

Subscriptions to stock of the Farm Credits Company will be increased to \$1,000,000, if possible, making \$5,000,000.

It was determined at a conference held here on May 26 between Mr. Hoover, Red Cross officials and chairmen of Mississippi, Louisiana and Arkansas commissions that the Arkansas plan will be followed in Louisiana and Mississippi.

Believes a Visit From President Coolidge to Flood Regions Would Have Broken Solid South.

Weak's Supply Company.

Monroe, Louisiana, May 28.

Editor Manufacturers Record,

I believe that President Coolidge could have greatly increased his own prestige in this section by visiting this country at this time, and I think possibly it would have gone far to have broken the solid South; a consummation devoutly to be wished, according to my view-point. Incidentally, I was born and reared in this immediate section and my forbears for several generations were of Southern birth.

I cannot help but admire him for his courage in doing what he conceived to be the right, even though at the expense of his personal ambition.

There was one point I should have emphasized in my previous letter, and that was that Monroe escaped a flood, it being the one dry spot in the great waste of waters from the Ouachita river on the West to the Mississippi river on the East, and from the crevasse in the Arkansas river, practically to the Gulf on the South. We have every reason to believe however, that the waters will have receded at least in the northern part of the State in time to make fairly good crops, our past experience demonstrating that crop growth just after the water recedes is very rapid on account of the silt deposit.

GEO. G. WEAKS, President.

Develop Southern Fibres.

A fertile field for large-scale research, looking to the expansion of established industries and, inevitably to the creation of wholly new ones, is indicated in a recent conversation between Dr. Frank K. Cameron of the University of North Carolina and a representative of the MANUFACTURERS RECORD.

"The South is preeminently the fibre-producing section of the nation," said Dr. Cameron. "For example, there is paper—purely a fibre product. The South produces pulp wood, and could easily produce other fibres suitable for paper-making, faster than any other section of the country. A large part of the paper industry must inevitably look to the South. We could easily furnish fibre for all the kraft and newsprint papers the country could use, but we are limited in expansion of the kraft industry by the supply of sodium sulphate; and newsprint production in the South has not yet begun, though the process by which it will be made here was announced in the MANUFACTURERS RECORD for April 28.

"The sodium sulphate now used for southern kraft comes as a by-product of the sulphuric acid industry, and the demand for it exceeds the supply. But, since it is a by-product its manufacture cannot be increased to meet the demand, but only as the market for sulphuric acid is increased. Additional supplies of sodium sulphate could be obtained from many of our far-western salt beds at a production cost of about \$3 per ton, but the railroads would charge \$20 per ton freight to southeastern points. The resultant charge is prohibitive. Chemically, we could make sodium sulphate from seawater along our southern seaboard, together with other products, but no market exists for the other products, and until such a market is developed the production from this source is not commercially feasible. It is, therefore, well worthwhile for Southern research agencies to hunt for a source of sodium sulphate in order to increase our kraft and other paper production.

"The great and distinctive Southern fibre is cotton, and some use of it is made in chemical industries. The Southeast produces a short fibre not suitable for high-grade fabrics, and not profitable to grow. Research should be directed on a large scale to the development of cheaper ways to produce the staple, and to new uses for the chemical products of the fibre—the cellulose products. Progress in these lines would mean cheaper production of cotton for the farmer, together with its use in industries which now can use only the linters; or, even where other very different raw materials are used. Thus, the short staple might be used for making rayon, along with the linters, or in the place of pulp wood. There has been research along these lines in the past, but it has been sporadic and unrelated. It should be carried forward continuously, on a grand scale, and carefully coordinated.

"Another fertile field for research looking to the development of southern industry is in the manufacture of fertilizer and insecticides. Seventy per cent of the Nation's production of fertilizer is consumed in the South, and the great battle against insects is in southern fields. The world today is moving toward more concentrated fertilizers, and it seems logical for southern research agencies to lead the world in this important field. The basis of the industry now is the manufacture of soluble phosphates, and in the development of cheaper methods for producing phosphates—a chemical problem—lies the hope of commercial advance."

In a few words Dr. Cameron has here sketched a large field, rich in potentialities—a field in which the South will make slow or rapid progress, according to the thoroughness with which Dr. Cameron's advice is followed.

The Flood Situation As Viewed by the National Foreign Trade Council.

By GEORGE GARNER.

Prevention in the future of another national disaster from flood in the Mississippi Valley is advocated in the Declaration of the National Foreign Trade Council, which has recently concluded its fourteenth annual convention, in Detroit. As approved by the convention, the opening paragraph of the Declaration says:

"This convention reiterates the recommendation of previous National Foreign Trade conventions that the inland waterways of the United States should be brought under effective control and use. The unprecedented flood in the lower Mississippi Valley has caused untold disaster and forced the problem of flood control and the utilization of inland waterways upon the attention of the entire country. Control should be accomplished in a manner that will carry with it the development of a scientific system which will enable the stored flood waters to be utilized in the service of commerce and transportation."

The sentiment among the delegates to the convention was by no means as conservative as this expression of the Council's view. Individually, many expressed belief that Congress should be called into special session, to provide relief for the sufferers and to institute preliminary studies which would enable the national legislature intelligently to take actual steps in the December session to assure flood prevention for the future. The Council itself, however, is a conservative body, and this paragraph really may be regarded as strong, coming from that source.

Adoption of this resolution was due in large measure to Ernest Lee Jahnce of New Orleans, ably reinforced by Julius Goslin of Birmingham, a resident of New Orleans until two or three years ago. Both are members of the Council. In a general way, the members of the Council knew that great suffering and loss had been entailed by the flood, but not until the situation was explained to them in detail by Mr. Jahnce did they even begin to realize the magnitude of the disaster. As chairman of the reparations board named to arrange for the reimbursement of the residents of Plaquemine and St. Bernard parishes for losses sustained through the cutting of the levee, Mr. Jahnce is intimately informed on the situation, and Mr. Goslin was almost equally well posted.

At an executive session of the Council, Mr. Jahnce offered a resolution calling for a special session of Congress, to make adequate appropriations for immediate relief of the sufferers and to institute a study of ways and means to prevent flood recurrence. He labored till well into the morning hours and his effort brought forth the paragraph quoted.

From his knowledge and observation of many years, Mr. Jahnce believes the Mississippi flood problem should be solved by a combination of three factors: Impounding, wherever possible, near the source; Government standard levees down the main stretch, and safety valves—he does not like the word "spillways"—in the Delta section. And the cost of the entire project, he estimates, will not be greater than the losses incurred in such a disaster as the present flood.

"The magnitude of these losses," said Mr. Jahnce, "cannot be estimated. The direct loss is staggering; but, to it must be added the indirect losses for the entire Nation. Every man, woman and child in the whole United States has suffered some loss, great or small, through this flood. It is a national disaster, not a sectional affliction. The duty of relief is a national duty, not a sectional responsibility. The imperative necessity for prevention is a national necessity, not a sectional

question. The problem is a national problem, not a sectional problem."

But, like the South which he represented, Mr. Jahnce uttered not one word of reproach or complaint. Not once did he say, "The Government could have prevented this disaster if its officials had been interested." Not once did he murmur, "The South is paying the price of politics in Congress." Not once did he compare the present withholding of Government relief for suffering Americans with its generosity in giving \$800,000 for the relief of citizens in Italy and \$25,000,000 for relief work in Russia. Not once did he refer, in comparison, to the donation of \$2,500,000 to sufferers in the San Francisco earthquake. Mr. Jahnce represented and personified the South, and not a murmur fell from his lips.

The reparations committee of which Mr. Jahnce is chairman is composed of nine members, representing New Orleans, Louisiana, the parishes of St. Bernard and Plaquemine and the levee boards—the parishes whose prosperity was sacrificed for the saving of New Orleans by the cutting of the levee to relieve the flood pressure on the city's protective walls. The commission will figure losses aggregating millions of dollars and made up of small money amounts and of claims running into thousands of dollars. The losers range from muskrat hunters, fishermen and negro farmers with only an acre or so of land up to great corporations with mills and factories and costly machinery and equipment. All, great and small, were called on to give their property to the flood, so that New Orleans might be saved, and now New Orleans is determined, and stands pledged, to repay them for their money-loss, though it never can repay them for their self-sacrifice and loyalty.

"It is a stupendous task that confronts us," said Mr. Jahnce, "but, New Orleans is determined to make good these losses. These people gave their property, their homes, their occupation—everything. For this, New Orleans cannot show its full appreciation in tangible form; but, it will repay every penny that was lost."

"The people of the Nation do not know what the South has suffered. If they could realize it only 10 per cent, I am convinced, they would pour millions of dollars into the relief fund, and public sentiment for a special session of Congress would be so strong that it could not be resisted. The MANUFACTURERS RECORD knows conditions and has told all the world the truth about the situation. We owe it a debt of gratitude—indeed, I cut out a recent cover-page editorial on the subject and am having it framed, to hang on my wall."

Mr. Goslin was equally strong in his conversation, and the two Southerners enlightened the delegates in a manner which in time may mean much to the South and to the Nation.

The Nation Should Be Awakened.

Latcher & Moore Turpentine Works.

Fal, La., May 24.

Editor *Manufacturers Record*,

We thank you for your expressions of sympathy with reference to the flood situation. This is indeed a calamity that will not only affect Louisiana, Mississippi, Arkansas, and other states but the Nation as a whole. We trust that out of it may come an awakening which will not stop short of permanent and effective action that will prevent a recurrence of such a calamity.

D. D. BLUE, Manager.

The World's Largest Regional Chamber of Commerce Celebrates in West Texas.

IN WHICH INSPIRATION IS FOUND FOR EVERY OTHER PART OF THE COUNTRY.

By E. H. WHITEHEAD.

The governor of the largest State in the Union, a member of the cabinet of President Calvin Coolidge, two United States Senators, the vice-president of the Chamber of Commerce of the United States, numerous members of the lower house of Congress, a personal representative of the Governor of New Mexico and many high officials of the State government of the Lone Star State, joined on May 16 and 17 with more than 50,000 other people from more than 300 cities and towns of Texas to celebrate in Wichita Falls the ninth annual convention of the West Texas Chamber of Commerce, which organization since its foundation in 1918 has grown to be the largest of its kind in the world. The occasion was one of the largest gatherings held in the entire country and was the largest convention of any kind ever held in the great Southwest.

Color galore featured this convention. A most unusual spectacle, the "Congress of Nations," formed the center of attraction. Eighty-six towns of Texas, each representing a different nation of the world, and delegations from these towns numbering in some cases as high as 600, attended the conclave attired in the native costume of the nation represented by their respective towns. There were ladies clad in the gay costumes of Romy, men in the swashbuckling attire of Spanish cavaliers; long queued Chinese, stately little Japanese, bearded Frenchmen, and pantalooned Turks. One young lady, Miss Irene White of Cisco, Texas, appeared in a costume supplied by the Ambassador of Persia. It was made more than 400 years ago, and is said to have been worn in

the imperial court of Persia at the time Christopher Columbus set sail for America. Every nation on earth was represented in this unique congress, and men of the world who were present declared that the representation of their nationals was perfect.

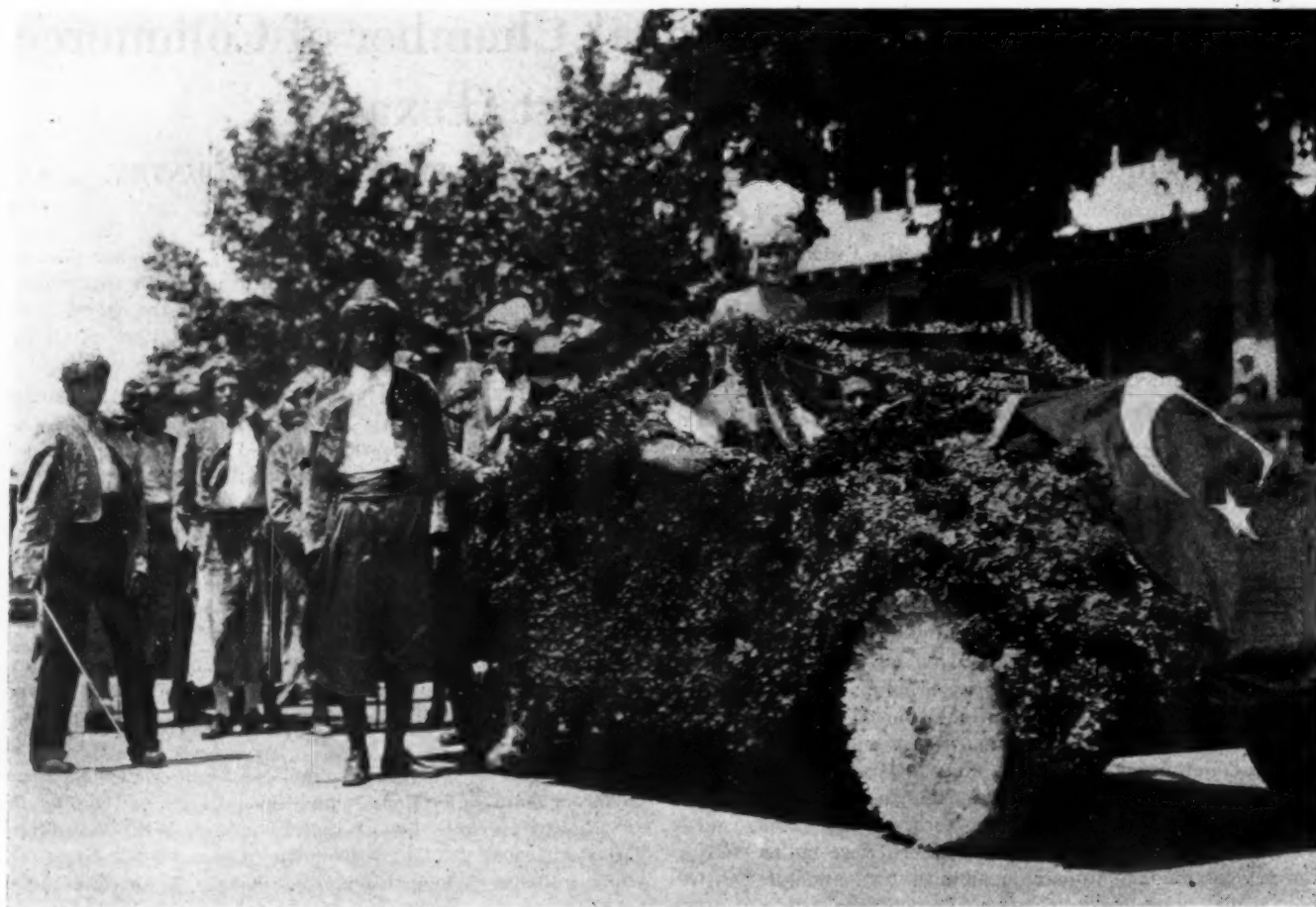
More than 5000 persons attired in these unusual costumes marched in a parade nearly five miles long. The parade was as colorful as the people who composed it. Artistically decorated floats, ladies carried on palanquins on the shoulders of brawny black men attired as Nubian slaves, Chinese rickshas, queer looking ox-carts of provincial Europe, and the covered wagon of pioneer America vied for attention with the very latest in automobile sport models, shining motor-trucks of West Texas manufacture, and beautifully decorated limousines in which rode the beauty and chivalry of the Southwest. Overhead soared a fleet of United States Army planes flying in formation, while a squadron of United States Cavalry from Fort Sill served as a guard of honor for the pageant.

The "congress" reached its climax at night when under the gleam of multi-colored spot and flood lights and amidst a dazzling pyrotechnic display the Princess of West Texas and "Miss America" held a resplendent "Court of the Nations," while a dense-packed throng looked on. A gigantic globe representing the world was made to revolve in the background. Each princess representing a nation stepped from the globe attired in court costume of the land she represented.

However, the West Texas Chamber of Commerce convention, colorful as it was, accomplished much more than the



A SECTION OF THE GREAT PARADE.



THE TOWN OF TURKEY, REPRESENTING THE NATION OF ITS NAME—HELEN FROSSARD AS "MISS TURKEY."

staging of a splendid spectacle. Hardheaded business men, 5000 of them, gathered in a huge convention tent and heard the best minds of their State and nation speak upon business topics of the day. The Governor of the State discussed problems confronting the State administration. United States Senators and the cabinet officers explained problems of a national nature and the vice-president of the United States Chamber of Commerce discussed problems of the nation's business and the necessity for close co-operation and understanding between the business men of all of the States in order for the development of the nation to continue.

These business men got their heads together in the planning of a constructive program of co-operation in developing their section of the country. Working through the West Texas Chamber of Commerce as the clearing house for the brains, energies and money of the region, West Texans have learned that constructive co-operation is the sesame to success. And it is because of this that they have built up on the prairies of Texas the largest regional chamber of commerce in the world.

The accomplishments of this organization have been many. It was first founded as the result of a spontaneous demand for the creation in West Texas of a State institution of higher education of the first rank. Stormy years of State politics followed in the Lone Star State. The older sections opposed the foundation of such an institution in the newly settled region, and having the votes in the State legislature, they were able to balk the West Texans in their plans. However, the voice of the West rose high above the political clamor, and at length after a threat to divide the State, and the lesson of constructive co-operation, as demonstrated in the election of a new governor, the West won its point, the Texas Technological College was provided for and eventually estab-

lished at Lubbock, Texas, in 1925. The college had the greatest initial year of any college ever founded in the Western hemisphere and has just completed its second year of existence in a great way.

With the winning of Texas Tech another program of economic development was laid out. The organization took up the task of protecting West Texas interests in matters of railway and fire insurance rates; in protecting the growing oil industry of Western Texas from inimical legislation at the State Capital; in working with the railways and public utilities companies for the development of the natural resources of an empire larger in area than half a dozen well-known States. The organization sought to encourage capital to invest in West Texas. Leaders of the organization urged a square deal for big business and worked to establish goodwill between capital and labor. A spirit of civic pride such as has seldom been seen in a new country was engendered in the little towns. Today one will find scores of Texas towns in the West, little more than hamlets from the standpoint of population, yet with the modern conveniences of a city. Each little town is fighting to forge to the front, and their ambitions are as limitless as the bounding prairies of their State. The fact that 60 of these towns had their hometown bands in the parade at Wichita Falls is an evidence of their spirit. And 50 young citizens of these towns selected from the public schools therein vied in a contest, each speaking on the subject "My Home Town" and seeking to prove that his town was the very best place in the universe for one to make a home.

Since the organization of the West Texas Chamber of Commerce, Western Texas has undergone a period of expansion seldom seen in an agricultural country. Literally millions of acres of raw prairie land have been brought under the plow.

New citizens by the hundreds of thousand have moved into the counties where a mere decade ago there were only a score or so of large ranchmen. The cowboy has given way to the harvest hand, the wiry mustang has retreated before the tractor, and the longhorn Texas steer has gone the way of the dodo bird, as the white-faced Hereford and the high-bred dairy cow has replaced him upon the Texas plains. Hundreds of points which a decade ago were mere cattle-shipping points where clustered a handful of homes, have grown into thriving centers of business. Tall buildings have sprung up throughout the region. Two cities of 50,000 population each have grown from small towns. There are half a dozen more which have just attained the 25,000 class, and there are a score of towns in West Texas, of more than 10,000 population, while Fort Worth, Texas, adopting the slogan of "Where the West Begins," has become a metropolitan city, as it has expanded its trade throughout the new empire. Where once the cowboy



EMILY FRANCES KEY, "MISS WEST TEXAS."

pitched his camp, and the howl of the lonely coyote rang over a deserted prairie, there are now luxurious hotels, tall skyscrapers, paved streets and highways and beautiful parks. The howl of the coyote has changed to the locomotive whistle, as railroad after railroad has stretched its twin bands of steel to all parts of the region. At the present time two major railway construction projects are under way in West Texas. Half a dozen extensions and short lines are being built, and railways are fighting with each other for permits to build more and more miles of track into a prospering region a few years past considered as the "Great American Desert."

Oil has written a magic story in the West. There are five



KATIE MYRL PARKS, "MISS BROWNWOOD."



EMILY JANE BAILEY, "MISS LAMPASAS."

major producing areas in West Texas at the present time. Some of these areas embrace a number of counties. Pipe lines of major companies form a network throughout the country and at present upward of 1000 miles of new pipe line is being laid. New field has followed new field and extensions have broadened each center. Recently oil was discovered



ARTHUR P. DUGGAN, RETIRING PRESIDENT OF WEST TEXAS CHAMBER OF COMMERCE.

west of the Pecos River and there seems no end to the development of this resource. Rapid development has followed the discovery of oil. Busy refining and manufacturing centers have been built in the oil country to care for the fuel and the gas of the fields and to provide supplies for development. Texas has for several years held its rank in the first three oil-producing States, running neck and neck with California and Oklahoma for first honors. Texas leads the nation in the production of natural gasoline, and is a large producer of carbon black, a by-product of the gas fields. And as the West Texan points out, this is produced principally in West Texas.

Conservation of water has been an important part of Texas development. The United States Government established Elephant Butte dam on the Rio Grande, forming a monster lake from which hundreds of thousands of acres of land are irrigated. Recently the city of Wichita Falls built Lake Kemp on the Wichita River and is now developing one of the major irrigation projects of the country. Through the efforts of the West Texas Chamber of Commerce and the West Texas Congressmen, appropriation was recently made for the building of Hudspeth Dam across the Pecos River at Red Bluff, which will reclaim half a million acres of dry land. Projects are under way on the Pease, the Brazos and Canadian rivers, which, when complete, will place under irrigation in West Texas an area that will compare favorably with a good-sized

State. In addition there are hundreds of small individual irrigation projects in operation, and there are many places, such as Fort Stockton and Balmorhea, where great springs are used for irrigation purposes.

However, the greatest part of West Texas has ample rainfall for all agricultural purposes without irrigation. The vast plains area has become one of the great wheat-producing areas of the world. Cotton, the mainstay of Texas agriculture, thrives throughout the region and West Texas produces a large percentage of the Texas crop. The equable climate and mild winter temperatures have made West Texas a favorite place for all agricultural purposes.

With all these resources it is no small wonder that the greatest part of the greatest State in the Union can maintain the largest regional chamber of commerce in existence. The annual convention of the organization is the climax of the year with these West Texans and affords them an outlet for their exuberation of spirit.

West Texas is great, and the West Texas Chamber of Commerce has assumed its present rank because of the caliber of men who have built the country, and who are behind the organization. These West Texans, descendants of hardy pioneers who wrested the country from the wild Comanche Indian and the Mexican, have devoted themselves to the task of building their country with the same vim which their forbears displayed in founding the Lone Star State. They have invested their lives and their means in the country and they



SECRETARY OF LABOR DAVIS ARRIVED BY AIRPLANE.

do not hesitate to back their original judgment when the time comes for renewed effort.

During the past two years the region has been treated to the spectacle of two of their outstanding citizens dropping their own personal business affairs to devote practically their full time to the task of serving the West Texas Chamber of Commerce as president. And they have served without pay.

One of these men, Col. R. Q. Lee of Cisco, Texas, is a

banker, railway president and ranchman. Yet Colonel Lee when called to head the regional organization put aside his own affairs and campaigned up and down the country urging a program of diversified and intensive cultivation of the soil as the economic salvation of his country. Mr. Lee drove in his own automobile a distance nearly as great as the circumference of the earth, speaking to gatherings numbering from a mere handful to an audience of a great many thousand people. He sought to lead by example as well as by word and constructed a model poultry farm to serve as an example to



WALTER ELY, JR.

Winner of first prize in oratorical contest—\$100 in gold and scholarship to Texas Technological College.

his people. So great was his success with this venture that he is now building a model diversified farm to show just how agriculture should be practiced in West Texas.

Arthur P. Duggan, successor of Colonel Lee as president of the regional organization, devoted himself to the post with equal energy and self-sacrifice. Mr. Duggan was head of a bank and of a great land company, with holdings running into the millions. Yet he, too, continued the program of diversified farming and worked with it a campaign of economic reform in the State, including a revision of the State system of taxation, which worked a hardship on West Texas.

The board of directors of the organization is selected from the outstanding business men of the region. They are men of affairs who serve without pay. Yet they consistently attend meetings of the executive board, traveling long distances at their own expense in order that they may serve their region. When it is remembered that it is 500 miles from the eastern to the western limits of the West Texas Chamber of Commerce territory, and almost as far from the northern boundary to the southern limit on the Rio Grande, the extent of this service can be imagined.

A new country requires self-sacrifice and energy for devel-

opment. West Texas is a new country. Its possibilities are boundless. The development it has undergone and is undergoing is proof conclusive that the necessary energy and self-sacrifice are being supplied.

Distribution of Our Foreign Trade.

Latest Department of Commerce foreign trade figures show that the value of exports increased while the value of imports declined for the four months ending April, 1927, compared with the similar period of 1926. The increase in exports was \$104,094,382, or 6.8 per cent, and the decrease in import values was \$222,534,434, or 13.5 per cent. At the end of April, 1926, our imports were running ahead of exports by \$132,747,439, while for the same period of this year exports are \$183,881,377 in excess of imports. During this period the total volume of our foreign trade decreased by \$118,440,052, or 3.7 per cent.

Exports to the United Kingdom, amounting to \$297,741,754 for the four months ending April, 1927, led in value all other countries in their purchase of American merchandise, followed by \$245,107,372 to Canada and \$148,995,779 to Germany. Exports to Germany increased \$58,000,000, the largest gain of any country.

The leading country from which we imported merchandise during the four months ending April was Canada, which shipped us \$144,688,303 of goods, followed by Japan \$126,156,618 and the United Kingdom with \$108,738,674. The only other countries approaching these totals were British Malaya, \$104,538,599, mostly for rubber imports, and Cuba \$95,023,228. The value of our exports to Cuba was \$55,812,175 and to Japan \$94,704,005.

TOTAL VALUES OF EXPORTS AND IMPORTS OF MERCHANDISE BY GRAND DIVISIONS AND PRINCIPAL COUNTRIES.

	Exports		Imports	
	1926	1927	1926	1927
Grand divisions:				
Europe	\$712,031,541	\$760,431,543	\$437,326,088	\$412,257,490
North America ..	367,123,474	386,904,167	349,053,560	329,325,982
South America ..	145,635,429	154,442,665	220,046,596	183,191,294
Asia	187,945,428	209,308,710	558,027,022	434,791,502
Oceania	66,533,406	69,120,765	29,693,246	23,986,420
Africa	32,852,082	36,008,062	50,722,287	38,781,676
Total	\$1,512,121,300	\$1,616,215,742	\$1,644,868,790	\$1,422,334,365
Principal countries:				
Belgium	\$34,771,125	\$40,168,645	\$26,637,745	\$23,166,002
Denmark	20,485,731	20,211,649	1,878,106	1,391,611
France	97,383,130	68,147,241	51,016,495	54,288,505
Germany	99,177,235	148,995,779	67,642,199	53,307,018
Greece	2,398,403	6,157,604	6,703,485	19,066,772
Italy	54,276,160	43,034,052	31,978,308	35,518,439
Netherlands	36,033,390	45,613,044	33,289,724	28,728,943
Norway	8,246,420	7,526,351	7,665,563	6,679,216
Soviet Russia in				
Europe	14,975,400	19,553,847	5,567,525	2,735,830
Spain	22,121,319	24,624,334	13,874,134	13,319,533
Sweden	12,961,906	13,725,914	10,719,454	14,138,761
Switzerland	2,744,462	2,844,791	12,840,995	13,762,475
United Kingdom ..	296,547,790	297,741,754	142,174,199	108,738,674
Canada	212,544,751	245,107,372	152,101,740	144,688,303
Central America ..	24,336,977	24,246,020	23,831,791	13,312,955
Mexico	48,375,525	38,044,159	66,061,813	53,880,119
Cuba	60,212,076	55,812,175	87,010,323	95,023,228
Dominican Republic	4,663,602	5,610,856	2,957,143	3,335,014
Argentina	48,570,916	51,776,683	37,792,875	32,000,886
Brazil	28,664,907	34,337,992	37,306,758	68,921,001
Chile	16,473,014	12,180,263	40,106,270	24,199,801
Colombia	16,586,982	17,383,784	20,523,143	34,183,938
Ecuador	2,063,925	1,761,722	3,538,508	1,848,374
Peru	9,971,481	8,385,771	8,581,018	6,529,330
Uruguay	7,404,574	8,632,495	13,545,379	6,367,781
Venezuela	12,344,186	16,900,511	7,919,717	7,732,830
British India	16,741,697	29,781,576	65,942,204	44,879,011
British Malaya ..	5,239,132	4,951,126	182,661,475	104,538,599
China	37,934,053	34,900,498	52,222,724	64,830,090
Hongkong	4,563,345	6,236,022	3,061,252	5,725,056
Dutch East Indies	8,473,502	11,109,508	54,403,649	32,119,561
Japan	85,233,632	94,704,005	128,635,375	126,156,618
Philippine Islands	23,884,155	20,073,925	36,594,646	40,366,616
Australia	52,719,102	56,269,185	20,879,098	18,694,436
New Zealand	13,088,071	11,995,732	7,852,378	4,189,987
British South Africa	16,465,015	17,652,529	9,867,309	4,142,910
Egypt	2,656,702	3,677,480	22,786,282	11,501,291

Texas Facts Refute Minnesota Slanders.

A STATE OF TRULY WONDERFUL RESOURCES, AND PROGRESS AND LIMITLESS FUTURE.

By HOWARD L. CLARK.

Minnesota is a great State. It has many fine people of high intelligence within its borders. For that reason the MANUFACTURERS RECORD has been surprised that some official or officials of its State government are either uninformed or misinformed, or else they could not have been guilty of an absurd tirade against Texas—the great Empire State of the Union, but I have seen no Minnesota reply to this slander against Texas. Uninformed individuals here and there and interests for selfish reasons have tried to malign the South or some part of it, but the occasion is rare, indeed, when a governmental department permits itself to exhibit ignorance about any portion of the United States so dense that it is tragic. In a warning to the people of Minnesota against an enterprise to sell land in Texas to the residents of the former State, the Division of Immigration of the Minnesota State Department of Conservation, in a recent bulletin, implored the people of Minnesota not to go to

"the sultry South, with its hot, destructive winds, its drouths, its boll weevils, corn borers and other destructive insects, its lack of comforts and facilities to which they have become accustomed in this State, to mix with the heterogeneous hordes, consisting largely of Mexicans, negroes and mixed bloods which predominate in many parts of Texas."

For charity's sake we shall draw no comparisons between Minnesota and Texas to the detriment of the former and far less shall the South attempt to disparage any other section of the country in order to present its own advantages. The South and Texas do not need to base their case on the negative side through misrepresentation of other sections. There is such a vast array of constructive facts on the positive side about the South that the half has never yet been told of its advantages, resources and record of achievement.

As to the various fantastic evils with which the Division of Immigration of the Minnesota Department of Conservation in its bulletin asserts Texas to be afflicted, I will cite a few facts about this great Southern State. Texas needs no defense of what it is and what it has accomplished, but the uninformed and the misinformed need to be rightly informed.

First of all, Texas is a mighty empire within itself. Its total area is 265,896 square miles, 262,398 square miles being its land area. In size it covers a territory 12,000 square miles larger than the four States of Illinois, Iowa, Wisconsin and Minnesota combined.

Texas is as large as the combined land area of 12 Eastern and North Central States (one-quarter of all the States in the Union), embracing the six New England States and New York, New Jersey, Pennsylvania, Delaware, Ohio and Michigan. Furthermore, Texas, with abundant natural resources and varied and beautiful scenery, is 54,000 square miles larger than the whole of France and 83,000 square miles larger than Germany. The farm area alone in Texas nearly equals the total area of Germany. That one may still be skeptical of the "bigness" of Texas, let it be said that one can travel 740 miles from North to South and 826 miles from East to West and still remain within its borders. If the eastern end of Texas were moved to New York city, the western end would extend beyond Chicago, the southern point would be near Raleigh, N. C., and the northern border 50 miles beyond Sault St. Marie, Mich.

The Texas Almanac of 1927 presents the variety and magnitude of the State's resources in the following:

"Texas has in its pine-timber belt (a region containing 17,000,000,000 board-feet of pine and 8,000,000,000 board-feet of hardwoods in addition to supporting a great and varied

agricultural industry) an area as large as Indiana. Texas has an area along the coast, lying less than 150 feet above sea level and having a subtropical climate, equal to the area of South Carolina. Texas has an area lying in a middle temperate climate and ranging from 3000 to 4000 feet above sea level and being 75 or more per cent cultivable as large as Pennsylvania. Texas has a mountainous area west of the Pecos as large as the State of West Virginia. Texas has a uniformly good farming country, well watered and ranging in altitude from 200 to 2500 feet above sea level, situated in Central and Midwest Texas, equal to the areas of Ohio and Kentucky. Texas has an area in the Edwards Plateau, admirably adapted to cattle, sheep and goat raising and diversified crop production, as large as the State of Tennessee. Texas has the third longest coast line among the States, and yet it is, from the standpoint of actual distance of most of its territory from the sea and from the standpoint of transportation and transportation problems, a great inland empire. Briefly, Texas is large, and it is enormously varied. It is the variety rather than the size that is chiefly interesting and that is latent with great possibility."

In a territory so vast Texas can offer a variety of climate from that of the temperate Southern coast and Rio Grande Valley region though the plains to the mountains of the West, where one peak rises to a height of over 9000 feet. One point to be remembered, however, with all of its great variety of climate no part of Texas is ever frozen in by zero temperatures for months at a time. Its climate permits year-round activity, with portions of the State harvesting fruits and vegetables before the North has dug out of its winter snows, which have stagnated business and kept the people housed for weeks at a time.

In a territory so vast Texas has immense mineral and soil resources that yield an abundance of mineral and agricultural products.

With a territory so vast and resources of such magnitude, the great development of Texas in the last decade or so only illustrates what may be expected in the future.

The population of Texas now estimated at about 5,500,000, largely rural, has increased 65 per cent in the last 25 years. Although its Southern border extends for over 800 miles along Mexico, more than 76 per cent of Texas' population, according to the last general census, is comprised of native white Americans, while less than 8 per cent is foreign born and less than 16 per cent colored. The South as a whole has a foreign born population of only 2.7 per cent, in comparison with as high as 25 per cent for some sections of the country.

Texas' foreign stock, those of foreign birth and of foreign born parentage, number 806,000, or slightly more than 17 per cent of the total population as of the census of 1920. Mexicans comprise 49 per cent of this foreign stock; Germans 19 per cent; Austrians 8 per cent; Swedes, English and others make up the remainder. The Mexican population is centered along the southern border of Texas extending into the western part of the State, with a few in the northern and part of the eastern section. Negroes are found mostly in the eastern, central and southern parts of the State. The Mexicans and negroes are principally farm workers, and as farm laborers are exceptionally valuable.

With its increasing population and agricultural and industrial expansion the wealth of Texas has made a gain of more than \$7,500,000,000, or 324 per cent, since 1900. It is estimated that the wealth of Texas is now over \$10,000,000,000, or more than one-ninth of the total value of all property in

the United States 25 years ago. The assessed value of all taxable property in Texas is now about four times what it was in 1900. Farms and farm property represent the largest single item in the wealth of the State, but industrial interests are expanding so rapidly that the value of manufactured products is now about one-third larger than the aggregate value of all farm products. The estimated value of all farm property in Texas is over \$3,500,000,000, or an increase of nearly 60 per cent since 1910.

Out of a total land area of 167,934,000 acres, Texas farms embrace 109,798,000 acres. Only 44,181,000 acres of farm land are classed as improved and in 1926 the aggregate farm crop acreage of the State was 29,848,000 acres. More than 100,000,000 acres in Texas are said to be suitable for cultivation.

As will be seen from these figures, the future agricultural possibilities of Texas, measured by what has been done, are enormous, although for some years Texas has been the leading or next to the leading agricultural State in the Union. It not only produces 31 per cent of the cotton crop of the United States, or over three times the production of any other State in the South, which furnishes more than half of the world's supply, growing more than 5,600,000 bales in 1926, with a value in excess of \$320,000,000, but Texas can produce and is producing practically every variety of crop grown in the United States. The total value of its agricultural output in 1926 was \$940,000,000, with cotton, its major farm crop, representing about one-third of the amount.

In 1926 Texas produced 106,865,000 bushels of corn, 32,796,000 bushels of wheat, 83,666,000 bushels of oats, 48,276,000 bushels of grain sorghums to mention some of the larger grain crops of the State, and in addition 49,345,000 pounds of peanuts, 10,656,000 bushels of potatoes, 6,142,000 bushels of rice and many other crops. With the South furnishing about one-half of the commercial truck crop values of the country, Texas, with a trucking crop value of \$18,690,000, in 1926 was the third leading Southern State.

Crop diversification in the State is making rapid strides, with the whole Rio Grande Valley region becoming one of the nation's garden spots. While an enormous gain has been made in food crops Texas is still one of the leading cattle States of the Union, over 13,000,000 head of livestock being on Texas farms.

Turkey raising with an annual output of \$10,000,000, pecan growing, the development of a large citrus and fig industry are some of the farm activities attracting attention. The "Onion King of the World," C. H. Melton of Devine, Texas, thinks nothing of seeding 2000 acres in Bermuda onions and producing 2,000,000,000 onion plants, while at the same time planting four tons of cabbage and other vegetable seed. During 1926 the Melton farms, which employ approximately 6000 people, shipped in the early spring 300 carloads of plants and in between crop seasons last summer shipped 63 cars of green corn to Eastern markets.

Ask C. H. Melton, once a poor farmer boy who has dug wealth out of the soil of Texas, what he knows about Texas.

Ask Ed C. Lasater of Falfurrias, Texas, who has a 380,000-acre ranch in five South Texas counties and has built up the largest Jersey dairy herd in the world, what he knows about the State.

Ask Wat Walker, aged 26, down near the Rio Grande, who is said to have made \$50,000 in three years growing spinach; ask Mrs. W. A. Mathews of Renner, Texas, who runs a small tenant farm; ask any Texan, whether a native or adopted citizen, not only the large ranch owner or the successful truck grower farming a large acreage, why they prefer to live in Texas and what they think of its opportunities.

Texas still has ranches and farms of immense size, but large land holdings are being divided into smaller farms, for Texas now has over 466,000 farms, as against 352,290 in 1900.

It is this broader individual ownership and operation of former Texas farm tracts of large acreage which is advancing agriculture and increasing diversification. Many communities a few years ago not even marked on the railroad map, are today modern towns on modern highways. They have become the centers of rich agricultural regions. Other cities have sprung up as if by magic with the discovery of oil and have continued to grow with the development of the surrounding territory.

Backing the great agricultural activity of Texas is its rapidly expanding industrial development. According to the census of 1925, the value of Texas' manufactures amounted to \$1,238,000,000, or \$334,000,000 more than the value of its agricultural output that year. Truly a striking indication of the expansion and diversification under way in Texas.

Cotton manufacturing in Texas is increasing. In 1925 the value of cotton mill products was \$19,734,000, as compared with an output of \$2,815,000 in 1910. The furniture industry has more than doubled since 1910, now having an annual production of \$3,848,000. Texas has a great timber region and the production of lumber in 1925 was 1,578,000,000 cubic feet, ranking it with the larger lumber-producing States of the South, which now supplies nearly one-half of the total lumber output of the country.

The value of the mineral output of Texas in 1925 was \$351,000,000, or nearly twenty times its output of 1910. More than 163,000,000 barrels of petroleum were produced in Texas in 1926, which is more than half of what the whole country produced in 1910. Texas now produces 1,890,000 tons of sulphur, which is 99.9 per cent of all the sulphur mined in this country. Recent potash discoveries in Western Texas may mean the development of one of the world's greatest resources of fertilizer materials, the value of which to this country would be immeasurable. Among the minerals produced in Texas are salt, gypsum, fuller's earth, clay, lime, building stone and granite, lead, zinc, quicksilver, asphalt, iron, coal and a variety of others as yet but little developed. In fuel resources Texas, in addition to its oil and gas, has a considerable coal area and lignite deposits of vast limitless extent. Texas mined over 1,000,000 tons of coal in 1926 and is known to have 8,000,000,000 tons of coal and 23,000,000,000 tons of lignite reserves.

In its power development Texas, through the development of water resources and the utilization of lignite, is keeping pace with the demand of industry and is building a foundation for further expansion.

The financial growth of Texas, in addition to the hundreds of millions of dollars of outside capital annually invested in the State in order to develop and operate business of the magnitude now reached, is shown in the increase of \$903,000,000 in bank resources and \$638,000,000 in bank deposits since 1910. Last year the aggregate bank resources of Texas were \$1,276,763,000 and individual deposits were over \$864,000,000.

Through Southern ports pass more than one-third of the foreign commerce of the United States. Texas plays an important role in this foreign trade. Texas ranks third in exports and sixth in imports in volume of tonnage handled by all the ports of the country. The total value of merchandise exported through Texas ports in 1926 were in excess of \$670,000,000, an amount greater than the South's total exports in 1910. Through the Galveston district alone in 1926 the value of exports was \$513,825,000, exceeding by \$17,000,000 the combined value from all of the Pacific Coast ports.

With a railroad mileage of 5332 and with modern highways the transportation facilities of Texas are keeping pace with its general development. Highway expenditures in the State in 1926 amounted to \$35,659,000, which is within \$23,000,000 of the aggregate highway expenditures of the entire country in 1904.

Public education in Texas is matching the advancement

made by the State agricultural, industrial and commercial lines. Public school expenditures of Texas are now over \$55,000,000 annually, or five times similar expenditures for 1910 and within \$25,000,000 of what the 16 Southern States spent that year. The South as a whole expended for public education in 1924 \$364,863,000, or \$150,000,000 more than the entire country spent in 1900. More than 22 per cent of Texas' public educational expenditures was for new school buildings and equipment. In 1910 the number of pupils enrolled in Texas public schools was 821,631 and in 1924 there were 1,194,655 pupils. About 80 per cent of the State's population between five and seventeen years of age were enrolled in public elementary and secondary schools. In 1914 Texas had 46,573 students in public high and normal schools and 225,571 in 1924, or about five times as many as were enrolled 15 years ago. In addition there were enrolled in private schools and colleges of Texas more than 50,000 students. There is invested in land, buildings and equipment more than \$34,000,000 in the universities, colleges and professional schools of Texas.

A number of universities heavily endowed by the State or individuals or religious bodies give to Texas a remarkable power in educational work. The State University was many years ago endowed by the legislature with an immense area of public land. The income that the university is now receiving from oil on this land promises to make it perhaps the richest university in America.

But to attempt to catalogue the resources of Texas or to make people who have not been there grasp the extent of its territory, the rapidity of its development in education, in industry, in agriculture, in commerce, in population and in wealth would be almost a hopeless task. I have simply sketched a few of the outstanding facts about Texas.

Big Building Operations in Florida.

Daytona Beach, Fla., June 3.

Editor Manufacturers Record:

I have just been reading the National Monthly Building Survey of May 1 prepared by S. W. Straus & Co.

There has been so much said about business slowing up in Florida that many think the State is at a standstill. The most concrete evidence that I have seen that it is not is contained in this report. Florida stands eleventh in volume of building by States for the entire country, and is the only State south of the Mason and Dixon line and east of the Mississippi appearing in the first twelve.

Its volume of building totalling approximately \$8,000,000 for the month of April is only \$900,000 less than the combined volume of Georgia (\$1,628,500), Alabama (\$2,656,500), South Carolina (\$807,500) and North Carolina \$3,805,500), four of our best Southern States marching forward in a program of great industrial expansion.

It seems to me this should impress the skeptics and hearten the people of Florida.

WALTER A. RICHARDS, City Manager.

Following are the reports to which Mr. Richards refers as having been received by S. W. Straus & Co. from the 12 States, which, based on April reports submitted, are leading in building activities:

States	Number of towns and cities	Valuation of permits
1. New York	39	\$113,526,322
2. Illinois	27	54,003,484
3. California	58	32,257,767
4. Pennsylvania	19	20,336,737
5. Ohio	27	20,270,850
6. Michigan	15	19,558,783
7. New Jersey	31	16,453,608
8. Massachusetts	28	13,225,010
9. Texas	19	8,554,505
10. Wisconsin	15	8,317,387
11. Florida	38	7,999,064
12. Indiana	21	7,887,169

INDUSTRIAL SURVEY OF TENNESSEE ELECTRIC POWER COMPANY TERRITORY.

Nationally Known Engineering Firm Engaged—Other News of Company's Activities.

Chattanooga, Tenn.—The Tennessee Electric Power Company has during the past week completed arrangements with Lockwood, Greene & Company, Boston, Mass., a nationally known engineering organization, for a thorough survey of the company's territory. The purpose of this survey is to obtain economic facts and data regarding plant locations, as well as recommendations as to the types of industry best suited to locate in different parts of the territory in Middle and East Tennessee. In discussing the subject recently, B. C. Edgar, vice-president of the power company, said:

"While there is more interest being displayed in textiles at the present time than in other fields, we are not unmindful of the fact that Tennessee, and particularly the territory of the Power Company, offers many opportunities for the development of other lines of manufacturing, and this industrial survey is being made with the thought in mind of selling the merits and advantages of this part of the country to capitalists and leaders in other lines of manufacturing, who could profitably operate in the South and Tennessee. We feel certain that the conclusions reached and the recommendations made by such a reputable organization of engineers as Lockwood, Greene & Company will do much to further impress upon Northern and Eastern mill men the many merits and advantages that we already know exist in this state."

A number of representatives of the Tennessee Electric Power Company attended the fiftieth annual convention of the National Electric Light Association in Atlantic City this week. This is one of the largest conventions held annually in the country, being attended by over 5000 executives of electric light and power companies and other concerns affiliated with the industry. The company presented its moving picture, "White Coal," at the convention exhibit, and this served as a special advertisement of East Tennessee.

In the four months ending April 30, 1927, a total of 25,229 shares of six per cent first preferred stock was placed with investors in Tennessee by employees of the company. During April when the company closed out its issue, paying 6.49 per cent, a total of more than \$1,750,000 par value of stock was sold. Since the company started selling its stock on the customer ownership plan three and a half years ago, securities with a par value of more than \$8,000,000 have been sold to the public, practically all of it being sold or subscribed for by Tennessee investors. There are over 10,000 shareholders, with the average holdings about eight shares per individual. The company now has more than 87,000 retail customers in Nashville, Chattanooga and over 100 communities in the State.

It was recently announced that H. B. Walker, of Nashville, is now engaged in the Industrial Department of the company. Although organized less than a year ago with R. C. Leonard as director, this department's activities are increasing steadily. A few weeks ago E. L. Crump was promoted from the sales organization to a position on the staff of the Industrial Department. This department, with headquarters at Chattanooga, is devoting its entire time to the work of promoting industrial development in the territory served by the company.

Virginia Furniture Factories in \$4,000,000 Merger.

Bassett, Va.—A merger has been effected by three large furniture factories here into one corporation which will be capitalized at \$4,000,000 and bring under one management four plants of large production. The firms interested include the Bassett Furniture Company, J. D. Bassett Manufacturing Company and the Stanley Furniture Company.

The Great Lakes-St. Lawrence Waterway and an All-American Waterway From Lakes to New York.

By COURTENAY DE KALB.

The most succinct and explicit statement of the problem of the "Great Lakes-St. Lawrence Waterway" that we have seen comes from the pen of a distinguished civil engineer, Philip W. Henry, published in the *Geographical Review*, being the April bulletin of the American Geographical Society. It possesses the merit of presenting a complete picture, with the historic background, tracing the development of the conception of interfluvial waterways from the Great Lakes since the days when the early explorers, Joliet and Marquette, possessed a prophetic vision (in 1673) of a canal for connecting Lake Michigan with the Illinois River.

This canal became a fact in 1848. At first it was only six feet deep. In 1871 the city of Chicago increased the depth in order to maintain a constant gravity flow for sewage disposal, as a protection to the water supply, which was taken from the Lake. In the same year the right of the United States to obtain free access to the sea by way of the St. Lawrence was first recognized by Great Britain and Canada. The diversion of water from the Great Lakes to Mississippi drainage was thus begun many years before the question entered into international discussion. In fact, Chicago proceeded under the assumption of a right, by State charter, to divert a reasonable quantity of water, ultimately figured in 1889, and confirmed by Act of the Illinois Legislature, at the rate of three and a third cubic feet per second per 1000 population. That figure was based upon the growth of Chicago to a total of 2,500,000 inhabitants, and would have meant a diversion of 11,400 cubic feet per second from the Lake. The United States, however, guarding rights of navigation in which other States were interested, interfered and denied the right of the State exclusively to determine this matter, conceding in the year 1901, by order of the War Department, the right to divert 4167 cubic feet per second.

It was nine years later when the issue was raised between the United States and Canada as to any division of the Lake waters. It was on May 13, 1910, that the Boundary Water Treaty was concerted, permitting the use of 20,000 cubic feet per second at Niagara to this country, and 32,000 cubic feet to Canada. While the diversion of water at Chicago was not mentioned in the treaty, Lake Michigan is named as one of the tributaries to the Niagara River, and one of its articles distinctly permits diversion of waters and, if injury should result, the injured party is granted the same legal remedies "as if such injury took place in the country where such diversion or interference occurs, but this provision shall not apply to cases already existing." This was for the benefit of Chicago, and protects it in further use of Lake waters within proper limits.

Mr. Henry shows how, after litigation to secure court decisions that would more securely guarantee the right to increased diversion through the Chicago Main Drainage Canal, the War Department raised the quantity from 4167 cubic feet to 8500 cubic feet per second. This may prove to be the utmost that can be withdrawn, in consequence of which limitation an enormous additional plant for treatment of sewage is to be created. Says Mr. Henry: "Since 1921 over \$40,000,000 has been spent for the treatment of sewage so as to lessen the amount of water required for dilution. Plans are now under way for the expenditure of \$150,000,000 more for the same purpose, the cost to be distributed over the next 15 to 20 years."

The effect on navigable waters in the Lakes and St. Law-

rence River below Lake Superior is to reduce the levels as follows: Lakes Michigan and Huron, .5 foot; Lake Erie, .4 foot; Lake Ontario, .4 foot; St. Lawrence River, at Montreal, .37 foot, and at Quebec, .03 foot. As pointed out by Mr. Henry, "the lowering caused by the Chicago diversion is a small matter when compared with daily, seasonal and yearly fluctuations in the levels of the Great Lakes." The reduction from that cause "is less than that due to dredging in the St. Clair and Detroit rivers, but, while the former is a detriment to navigation in general, the latter is a benefit. The effect on Lake Erie of the Chicago diversion is little more than half that which will be due to the new Welland Canal when completed, but the latter, too, will be a benefit to navigation in general."

Moreover, compensating works for restoring the level existing prior to the Chicago diversion, effective in the Lakes and as far down the river as Montreal, are estimated at not more than \$6,358,000. It is to be considered, also, as an economic question, that power developed at Lockport on the Chicago Main Drainage Canal, though smaller in amount than that which could be developed from an equal quantity of water at Niagara, is worth two and a half times as much at Chicago, and is, therefore, compensating. The effect on the power problem of a possible future St. Lawrence project is nil, because the full flow of the river would at no time be utilized.

The available depth for purposes of navigation in the Lakes, in connection with a future canal, is now only about 18 feet. "The new Welland Canal, with a minimum depth of 25 feet and locks constructed for 30 feet, will open Lake Ontario to lake navigation in 1930." This is looking toward improvements in Lake channels in future. "The Joint Board of Engineers * * * based its estimates on a 25-foot depth for channels and a 30-foot depth for locks and other structures. * * * A majority of the Canadian section favor 27 feet (for a future Great Lakes-St. Lawrence Waterway), which is the depth to which the new Welland Canal is being carried under present contracts. A majority of the American section favor 25 feet, because a greater depth above Lake Erie is not foreseen for a long period." The difference in estimated cost for a 25 and a 27 foot waterway is \$26,200,000. The total cost, exclusive of preparation for power development, for a 25-foot channel would be \$212,420,000. The St. Lawrence River section is estimated at \$167,720,000. This does not include the new Welland Canal, the estimated cost of which is \$114,500,000 for a 25-foot channel. The proposed power development of 2,326,000 horsepower in the International Rapids section, and 404,300 in the Soulanges section, combined with waterway improvement in the St. Lawrence, is estimated to cost about \$394,025,000. Additional works to utilize the entire available power of the river, which is approximately 5,000,000 horsepower, would cost \$224,420,000.

The paper by Mr. Henry does not discuss the alternative ship canal, following essentially the old route of the Erie Canal. Therefore, it is not controversial, which befits the character of the medium through which he has chosen to present his analysis. It is to be recommended as a dispassionate statement of conditions which should be understood by the general public for intelligently reaching conclusions on the merits of the St. Lawrence waterway in advance of any legislative program. A similar clean-cut analysis of the route from Lake Erie to the Hudson would be useful. Directly or indirectly, for power purposes, if for no other

reason, we are certain to become involved in the great issue of a St. Lawrence waterway. We cannot avoid a relationship to it, even if constructed solely by Canada. It is one of those things that are coming, and we might as well grasp what opportunity we may in securing for ourselves the utmost advantages that should follow from international co-operation.

There is, however, another aspect of the case that we should rise high enough in our statesmanship fully to comprehend. Although the St. Lawrence Canal would be closed in winter, it would necessarily divert through Canada an enormous tonnage from the Middle West, which now finds its way to Atlantic ports in the United States. That tonnage will grow, not merely because of the facilities offered by such a canal, but also because of the increase in population and the demands of commerce. We have no disposition to minimize the growth to which Montreal and Quebec will be destined by virtue of the attraction of a legitimate amount of international shipping down the St. Lawrence, but it cannot be overlooked that, if this canal is not offset by a second canal traversing an all-American route to our great American metropolis, those Canadian cities will grow at the expense of our financial centers. The annual loss would soon amount to more than the total cost of constructing an independent canal on the route that De Witt Clinton foresaw would create that towering New York that comes so near to being today the financial center of the world. After all, great as New York has become, it depends on trade, and trade cannot be diverted down the St. Lawrence without decreasing the increment of its prosperity and its growth. That means a lessening of the power of New York to perform its functions as an abundant source of capital and as a regulator of industrial effort, which should always respond to the development of the nation. In lesser degree, every great city performs such functions, but New York is the nation's industrial clearing-house, and whatever should stunt its further growth would to that extent throw out of balance the financial dependence on which the country as a whole has increasingly come to rely.

Recognizing that the St. Lawrence waterway in time is sure to be built, whether we assist or not, the problem seems to resolve itself into one of protection to our own trade and finance by providing at the same time a ship canal by way of the Hudson and the Mohawk. These are days when a national enterprise of great industrial benefit, costing perhaps another \$200,000,000, does not seem serious from any point of view. Times have changed from the period about 1890, when the old Maritime Canal Company of Nicaragua dared not confess that its projected canal might exceed a cost of \$100,000,000, for fear of losing caste among sane financiers. Today Chicago calmly contemplates additional expenditures of \$150,000,000 for improvement of its sewage disposal. The great American metropolis cannot afford to divert trade down the St. Lawrence that can largely be brought down the Hudson by an expenditure insignificant in proportion to the increase in national prosperity that would result. It is of sufficient importance to be done by the Federal Government, no matter what else we do on the St. Lawrence.

Plan to Raise \$100,000 a Year for Advertising and Land Settlement.

Atlanta, Ga.—A State-wide campaign to raise \$100,000 a year for the Georgia Association has been inaugurated by a campaign committee, of which H. M. Atkinson of this city is chairman. The campaign will be assisted by the American City Bureau of New York, and funds will be used chiefly for advertising the resources of the State and promoting land settlement. H. G. Hastings of this city is president of the association.

Jersey Cattle for Mississippi Flood Victims.

At the annual convention of the American Jersey Cattle Club held last week in New York a resolution calling upon members to give thoroughbred Jersey cattle to the flood sufferers of the Mississippi Valley was adopted. It appealed to Jersey cattle breeders to contribute stock in order to aid in the rehabilitation of the flood devastated area.

A. Victor Barnes of New York and New Canaan, Conn., was re-elected president and J. Riley Green of Wolfe City, Texas, vice-president of the American Jersey Cattle Club. Among those in attendance at the convention were Ed C. Lasater of Falfurrias, Texas, said to be the developer of the largest Jersey dairy herd in the world; Edward J. Cornish, Cold-Springs-on-Hudson, N. Y., president of the National Lead Company; Arnold H. Goss, Detroit, president of the Electrical Refrigerating Corporation; William R. Kenan, Jr., Lockport, N. Y., president of the Florida East Coast Railway, and M. D. Munn, Chicago, president of the National Dairy Council.

Southern States Safety Conference at Birmingham.

Birmingham, Ala., June 6—[Special.]—Industrial safety in all its mechanical and educational phases will be discussed by experts from many sections of the South when the Southern States Safety Conference, the first all-South safety meeting, convenes in Birmingham at the Hotel Tutwiler June 15 and 16. There will be three main sessions, luncheon, banquet and outing at Mitchell Dam hydro-electric plant of the Alabama Power Company.

A feature of the meeting, it is announced, will be the banquet, at which an attendance of from 500 to 600 is expected and which will be addressed by Morris W. Bush, president of the Alabama By-Products Corporation of this city, and George Hodge of the industrial relations department of the International Harvester Company. The conference will be held under the auspices of the Birmingham Safety Council, in co-operation with its engineering section; Birmingham Junior Chamber of Commerce, which sponsored the council when it was organized; Associated Industries of Alabama, Alabama Mining Institute, American Society of Safety Engineers, the engineering section of the National Safety Council; public utilities section of the National Safety Council, and the National Council. T. G. Brabston, president of the Birmingham Safety Council, is a member of the conference committee, with Ralph W. Hayes of Employers Mutual Insurance Company of Alabama; B. J. Dryer, manager of the safety and casualty department of the Woodward Iron Company; O. B. Phillips, safety inspector of the Tennessee Coal, Iron and Railroad Company; H. E. Mills, Alabama Mining Institute; C. E. Cash, United States Bureau of Mines, and C. D. Barr, vice-president of the American Cast Iron Pipe Company.

Plans of Buckeye Cotton Oil Company for Raleigh Plant.

In answer to an inquiry, the Buckeye Cotton Oil Company of Cincinnati advises the MANUFACTURERS RECORD that it has not abandoned the idea of crushing cottonseed at Raleigh, N. C.; it expects to use that point as an important center for its cottonseed milling operations. It has purchased the Raleigh mill of the International Vegetable Oil Company of Memphis, Tenn., and when satisfactory plans have been completed, will make extensive improvements.

Original plans of the company, which have been slightly changed, involved the erection of a \$600,000 cottonseed oil mill, for which plans had been prepared and contract awarded. The Buckeye Company is a subsidiary of the Proctor-Gamble Company of Cincinnati.

Boll Weevil Experiments by Chemical Warfare Section.

More than 1000 possible poisons and poisonous mixtures have been tested against 150,000 boll weevils, according to a progress report by H. W. Walker and J. E. Mills of the Chemical Warfare Service, Edgewood Arsenal, Md., made public by the American Chemical Society.

Calcium arsenate was used as a standard, and controls using unpoisoned cotton were run in all cases. Sixty-two compounds were found which equaled or surpassed calcium arsenate in deadly effects. Twenty-two of these caused little or no plant injury. Only five, however, seem to offer commercial possibilities. They are sodium fluosilicate, barium fluosilicate, a special calcium arsenate, barium fluoride and cryolite. Forty of the compounds were definitely harmful to the cotton. No substances were found which definitely attracted or repelled the boll weevil or which irritated it sufficiently to make it fly.

"It was thought," the report says, "that if calcium arsenate could be made more pleasing to the weevil's taste the weevil might ingest more of the poison, thus increasing the effectiveness of the calcium arsenate. Accordingly, about 0.25 per cent of the various essential oils and some few other chemicals, respectively, were added by calcium arsenate. While there are some indications that such small amounts of aniline and one or two other substances added to calcium arsenate were each more effective than the calcium arsenate alone, no conclusive results were obtained. When the most powerful known irritants to man were tried against the weevil in the hope they might make it fly, they caused practically no signs of irritation or excitement. While some few other substances less irritating to man did seem to increase the weevil's activity under the conditions of test, in no case was the increased activity sufficient to be considered of economic importance. None of the substances tested was successful in making the weevil fly."

There is little hope of poisoning the boll weevil in the field by the use of volatile gases, the report saying:

"Weevils seemed to stand concentrations of gas entirely out of line with the known poisonous effect of the gas used. Suspecting that this was due to the ability of the weevil to live without breathing the gas, weevils were found to survive after about 17 hours' exposure in pure carbon dioxide and hydrogen, respectively, and 4 out of 7 weevils recovered after approximately 17 hours' submersion in water. This confirmed the view that weevils can live some time without breathing oxygen and, therefore low concentrations of gas were used in an endeavor to poison the weevil without causing it to suspend animation or to stop breathing. It was found that the boll weevil could be killed by a relatively small concentration of poisonous gas on longer exposures. In the field it would be practically impossible to maintain low concentrations of volatile gas for long periods of time, and there is little hope of poisoning the boll weevil by the use of volatile gases as such."

Although analyses on thousands of weevils were made, the amount of arsenic necessary to kill a boll weevil still remains uncertain, but the best estimate, the investigators suggested, is 0.00013 milligrams.

"Unfavorable weather and crop conditions made it impossible to make trustworthy comparisons of the relative effectiveness of the fluosilicates, the special calcium arsenate and commercial calcium arsenate from the one-acre plot tests made," the report continues. All these materials showed definite weevil control and there was no plant injury apparent on field action in any case. It is hoped to establish the relative effectiveness of these materials during the present year."

Extensive experiments were carried out with some of the

more soluble poisons, such as arsenic trioxide adsorbed on various absorbents. Coal dust proved to be the best absorbent tried, and even as low as 1 per cent of arsenic trioxide adsorbed on coal dust gave a very definite toxicity to the weevil and was not toxic to the cotton plant. None of the soluble poisons thus tried was, however, so effective as calcium arsenate when percentages were used that did not injure the plant. It is possible, it is pointed out, that such absorbed soluble poisons might find a use against certain leaf-feeding insects.

"In 1924 it was suspected that the weevil did not obtain the bulk of its poison through feeding or drinking the poisoned dew," the report says, "but by more or less accidentally picking up the particles of dust on its moist snout and subsequently ingesting the same. The fact that this occurs was proved experimentally by allowing weevils to remain on filter paper dusted with calcium arsenate and comparing the mortality with that of weevils allowed to feed on cotton dusted with calcium arsenate. A control consisting of weevils on undusted filter paper was run. The mortalities of the two dust tests were very nearly equal. It was independently proved that weevils were poisoned after walking across a glass plate dusted with calcium arsenate. There is no doubt that the weevil is also poisoned to some extent by drinking poisoned dew."

The tests described in the report began in 1924 and were carried out in Georgia, Florida, South Carolina and Alabama. Seventeen thousand weevils were put in cold storage at the Georgia Experiment Station to be used as needed. The materials and mixtures tested were made largely at Edgewood Arsenal, where cotton for preliminary toxicity tests are now grown in greenhouses. Clemson College, South Carolina, co-operated in the experiments. Weevils were bred from infested squares at Gainesville, Fla., and shipped to Experiment, Ga. Over 95,000 infested squares were used, and the total number of weevils so obtained was over 37,000, or 39.2 per cent. In addition more than 100,000 weevils were obtained from the field. Thirteen thousand of the cold storage weevils were field weevils, and 4000 were acquired from cotton gins in the vicinity of Georgia Experiment Station.

"It is worthy of note," the report declares, "that only 12.5 per cent of the gin weevils were available when needed, as against 40.6 per cent of the field weevils. This may have been due to the rough usage which the weevils received during the ginning of the cotton, or it may have been due to the fact that they were deprived of food for several days prior to their enforced hibernation. Examination of over 5000 acres of cotton in widely varying parts of Georgia during 1926 showed a total average infestation of less than .5 per cent, and consequently the field tests planned for Georgia had to be transferred to Florida. The cotton used for the 1926 field tests in Florida had an average infestation of 40.8 per cent when poisoning was started. This cotton was by no means ideal for these tests, the stand being very irregular and the cotton in general poor, but it did have weevil infestation."

The poisonous materials, it is explained, were first run both as dusts and molasses mixtures in preliminary tumbler tests. Those materials showing any definite toxicity were re-run several times in tumbler tests, and if they continued to compare favorably with calcium arsenate were re-run in cage tests in the field. Observations were made during these tumbler and cage tests as to the nature and extent of injury to the cotton plant, as well as the daily and total weevil mortality. Plant toxicity tests were also run on field cotton.

ENGLAND AND VIRGINIA FRATERNIZING FOR THE COMMON GOOD.

Virginia's English Visitors Plan to Invite Virginians to England.

Richmond, Va., June 4—[Special]—Virginia, this week will complete the first step in its campaign to bring through Hampton Roads the greatest foreign trade of the British Empire with the United States, when it will bid farewell in New York to its British guests who for the last four weeks have been traveling through the Eastern part of this country under its auspices. This tour included three weeks spent in Virginia, one of these in inspection of Hampton Roads, the other two in seeing something of Virginia's area in which its principal export crops are produced. The last week was a hurried trip through the Central States where Virginia hopes to influence manufacturers who deal with Great Britain to send their exported products through Hampton Roads.

The Virginia State Chamber of Commerce will immediately begin to consolidate its gains in the Central States and in England.

"The visit of the British to Virginia is but the first step in the Virginia State Chamber of Commerce campaign for British trade," Major LeRoy Hodges, managing director of the organization said. "Our campaign must be pressed this summer in Great Britain through an aggressive policy, in order to catch the eye of the hard-headed business man of England while it is turned this way and put his brain to work in formulating plans by which he can use the ports on Hampton Roads. The Central States also must be interested in shipping through the Virginia ports." Plans for the carrying out of this program soon are to be made public.

Before leaving, members of the British party made it plain that they plan to advocate a return visit of the Virginians to England with their respective organizations once they are at home again.

That the visitors were "sold" on the port of Hampton Roads was illustrated in a number of addresses made by members of the visiting party, in which they characterized Hampton Roads as the greatest natural harbor they have ever seen.

Major A. Corrie Rouse, O. B. E., F. R. G. S., secretary of the American Section, Overseas Organization, Federation of British Industries, will return to Virginia before going abroad to work out plans for more commerce between England and Virginia in a series of conferences with business men here. Others of the British party also are planning to return to Virginia on purely trade visits in the future.

Present indications point to the movement started by the Virginia State Chamber of Commerce having the support of both the British and Virginia press. In a column editorial the Daily Telegraph, of London, recently praised the spirit of the visit and in part said:

"We and the Americans are economically interdependent. Under tariff amendments which have been carried in recent years, efforts have been made to shut British goods out of the United States, but they have failed signally, as indeed they were bound to fail. The Americans cannot do without the things we have to sell. It is not merely that we make things that the people of the United States want and will pay even a high price to obtain. This country is the market for a wide range of raw materials, essential to industry, which are recovered in various parts of the Empire, and it conducts a large and profitable entrepot trade. It is no longer the greatest exporting country in the world, because it is out-distanced by the United States, but it imports more goods than any other country and for that reason it offers the finest market that is to be found anywhere. There is nothing like the free and unfettered discussion of business matters

by business men for the promotion of good will and cooperation, and the happiest results may be anticipated from the informal exchanges of views which have recently been taking place. As the Virginia State Chamber of Commerce realizes, we and the Americans have everything to gain by cultivating closer commercial relations."

Final Cotton Ginning Report 1926.

The final report of the quantity of cotton ginned as compiled by the Census Bureau from returns collected from 15,753 active ginneries located in 978 counties in 19 States shows that 17,755,000 running bales equivalent to 17,977,374 bales of 500 pounds of lint cotton were ginned in 1926. This is by far the largest cotton crop ever harvested in the United States. It exceeded the record 1914 crop by 1,842,444 bales of 500 pounds each, 1,873,695 bales more than the third largest crop produced in 1925, and 10,023,733 bales larger than the crop of 1921, which was the smallest in 30 years.

The Department of Commerce will shortly distribute the annual bulletin on cotton production in the United States from the crop of 1926. This bulletin will show the ginnings by States and by counties to specified dates throughout the season. These detailed figures are of local interest and permit of a closer analysis of the statistics.

A summary of the lint cotton ginned, by States, for 1925 and 1926 follows:

	COTTON GINNED, CROPS OF 1925 AND 1926.			
	(Exclusive of linters.) Running bales (counting round as half bales)		Equivalent—500-pound bales	
	1926	1925	1926	1925
United States	17,755,070	16,122,516	17,977,374	16,103,679
Alabama	1,470,404	1,356,402	1,497,821	1,356,719
Arizona	120,089	115,359	122,902	118,588
Arkansas	1,513,382	1,594,389	1,547,932	1,604,628
California	128,835	122,260	131,211	121,795
Florida	33,231	40,208	31,954	38,182
Georgia	1,498,473	1,192,952	1,496,105	1,163,885
Louisiana	826,179	912,246	829,407	910,468
Mississippi	1,857,525	1,985,524	1,887,787	1,990,537
Missouri	215,769	292,950	217,859	294,262
New Mexico	70,206	64,706	71,000	64,444
North Carolina	1,246,754	1,147,340	1,212,819	1,101,799
Oklahoma	1,760,644	1,680,304	1,772,784	1,691,000
South Carolina	1,025,991	929,040	1,008,068	888,666
Tennessee	442,052	513,130	451,533	517,276
Texas	5,477,788	4,098,249	5,630,831	4,165,374
Virginia	51,891	54,016	51,329	52,535
All other States*....	15,857	23,441	16,032	23,521

*Includes Illinois, Kansas and Kentucky.

Increased Production of Fuller's Earth in 1926— South Produces Over 90 Per Cent of Country's Output.

The fuller's earth sold or used by producers in the United States in 1926 amounted to 234,152 short tons, valued at \$3,356,482, or an increase of 13 per cent in quantity and 15 per cent in value compared with 1925, reports the Bureau of Mines. Every important producing State except Texas showed an increase. The output was reported by 14 operators in seven States in 1926. Georgia was the leading State in production in 1926, with Florida second. The South as a whole produces over 90 per cent of the country's output.

Fuller's earth is a term used to include a variety of natural clay like substances that possess the property of absorbing grease or clarifying, bleaching or filtering oil. The original use of fuller's earth was in the fulling of cloth, but little of it is now used for this purpose. It is used almost exclusively in the bleaching or filtering of vegetable and mineral oils.

Until 1895, when fuller's earth was successfully produced commercially in Florida, the United States was entirely dependent on foreign supplies. In 1926 the imports of fuller's earth were 9098 short tons, valued at \$123,674, an increase of 14 per cent in quantity and 11 per cent in value compared with 1925. Five producers reported that in 1926 they exported 6650 short tons of fuller's earth, which was a slight increase over 1925.

Southern Coal Hit for Pennsylvania's Benefit.

INTERSTATE COMMERCE COMMISSION'S RULING ON COAL RATES ROUNDLY DENOUNCED BY ONE OF ITS OWN MEMBERS.

[Special Correspondence Manufacturers Record.]

Washington, June 4.

Staggered, but by no means down, from the solar plexus blow received from the Interstate Commerce Commission's decision in the Lake Cargo coal rate case, coal operators of the Southern fields have rallied to the defense of their markets in the northwest.

The decision, which gives Pittsburgh and other Northern operators a 20-cent reduction in their freight rate to ship-side at Lake Erie ports, will be fought vigorously by the Southern operators. Just what line of attack will be followed has not yet been decided. Several possibilities are open and all are being studied thoroughly.

The Interstate Commerce Commission decision was announced Saturday, May 28, and it met with immediate reaction in the Southern fields. The following Friday (June 3) more than 150 operators of West Virginia, Virginia, Eastern Kentucky and Tennessee gathered in Washington, D. C., to jointly devise means for preventing the Pennsylvania and Ohio mines from taking from them the Great Lakes' coal trade given over to the northern fields by the Interstate Commerce Commission. So important is the situation that the operators turned out in greater force than for any other cause, and the meeting was described as the largest gathering of coal men ever assembled since the fuel administration was organized 10 years ago. The operators were accompanied by their attorneys and traffic managers. The importance of the case to the prosperity of the coal regions of the South was recognized by three principal railroads concerned, and they were represented at the conference by high officials. President W. J. Harahan of the Chesapeake and Ohio, President A. C. Needles of the Norfolk and Western, and W. A. Northcutt, general attorney representing the president of the Louisville and Nashville.

For a dozen years or more the Southern fields have been shipping increasing quantities of coal to Lake Erie ports for shipment by water to the head of the Lakes to supply the great coal-consuming State of Michigan, Wisconsin, Minnesota and the Dakotas. This lake cargo coal moves in the summer when mines otherwise would be idle, and is an extremely important factor in the coal trade. Pittsburgh and eastern Ohio mine operators, alarmed at their loss of this business, have at various times attempted to set up freight rate barriers against the Southern coal, but without result. Two years ago the Interstate Commerce Commission again refused to allow Pittsburgh more than its present 25-cents-per-ton differential under the Southern West Virginia rate. Pennsylvania political pressure caused a re-opening of the case, and after further hearings the Commission this time reversed itself and has allowed a 20-cent reduction in Pittsburgh's rate, making it now 45 cents below the rate of most of the Southern fields.

Officials of the National Coal Association representing, of course, operators in both Northern and Southern fields and therefore neutral in the controversy, were of the opinion that most of the Southern mines could not afford to absorb this 45-cent differential over Pittsburgh and so will lose the greater part of the lake cargo trade after the Interstate Commerce Commission order goes into effect August 10.

This position was taken by virtually all of the operators gathering in Washington, and they agreed that it would be impossible to continue to hold their trade in competition with the Northern fields. John Laing, representing the Winding Gulf district of West Virginia, declared: "I have been pro-

ducing coal since 1878, and I am acquainted with all the vicissitudes of the coal industry, but this is the hardest blow we have ever received."

Being unable to absorb the freight difference, three alternatives confronted the Southern operators: To try to get Pittsburgh's rate put back where it was; to try to get a corresponding reduction in their own rate, or to seek new outlets for the coal formerly moving to the Lakes. All of these seemed equally impossible, but after an all-day discussion it was agreed to work for a reduction in the rates from the Southern fields. The railroad executives present promised to do all possible after they have had a little more time to study the Commission's order. A committee of the operators was appointed to work with the roads, consisting of James D. Francis, vice-president of the Island Creek Coal Company, Huntington, W. Va., chairman; O. L. Alexander, Pocahontas Fuel Company; William Ritter, Red Jacket Consolidated Coal and Coke Company; H. H. Gross, president of the New River Company; C. C. Dickinson of the Dickinson Fuel Company, all of West Virginia; and R. C. Tway of the Tway Coal and Coke Company, Louisville, Ky.

President Harahan of the Chesapeake and Ohio told the operators that his road had fought the Lake Cargo case with all the diligence it could command, feeling that the existing rates on large cargo shipments should not have been disturbed. He declared that the Chesapeake and Ohio is vitally interested in the prosperity of the industries it serves, and in this he was endorsed by the executives of the other roads who promised to co-operate with the Chesapeake and Ohio in this matter. The Interstate Commerce Commission order does not name the Southern roads, but they stated that they would confer with the Northern roads affected to see what could be done. The Lake Cargo decision was represented as meaning the loss of some 18,000,000 tons of traffic annually to the Southern roads.

Since the order does not include the Southern railroads, they do not have the opportunity of going to the courts to seek an injunction against enforcement of the Commission's order. As outlined by the attorneys present at the Washington meeting, the Interstate Commerce Commission has virtually closed the doors to the courts to the Southern shippers. Only two methods were proposed by which the validity of the order might be brought up for judicial review. The Northern railroads might appeal the operation of the order against them, if they could be induced to so go in conflict with the wishes of the territory they serve, or the Southern carriers might file lower freight tariffs to offset the reduction given the Pittsburgh region.

Although the reasonableness of the Southern rates was not under consideration in this case, the majority report of the Interstate Commerce Commission warned the Southern carriers not to reduce their rates to meet the Pittsburgh reduction, using the following language:

"Under the issues now presented, it is unnecessary for us to consider whether the rates from the Southern districts are lower than reasonable minima, but we are of the opinion that the carriers would not be justified in reducing the present rates from those districts."

This majority opinion is attacked by Commissioner Hall of Colorado, who declared that "it goes outside the findings and prejudices issues which may hereafter come before us for determination in the manner contemplated by law. The query must follow: What right have we to invade the domain

which the law has allotted to carrier management and to seek by hint, suggestion, warning or threat to coerce carriers into a course of action other than that which they have chosen or may chose to take?"

With this opinion to back them, the Southern operators will attempt to have the Southern railroads reduce their rates on Lake cargo coal. To do this, however, the railroads will have to show the Interstate Commerce Commission that the present rates are bringing them too much profit, a position the roads may be reluctant to assume.

The question of finding new markets for the coal which has been shipped for Lake transportation was also discussed, but it was virtually agreed that other markets are out of the question. The Southern operators are already shipping all they can via the all-rail routes to the North and East, but they meet much competition from the nearer Northern fields. Not a great deal of American bituminous is exported normally, and the rate to Hampton Roads now enjoyed by the Southern fields is under attack by the Northern fields in another case before the Interstate Commerce Commission.

The possibility of having the case reopened by the Commission is also remote, as it has been pending for four or five years and was reopened once two years ago. The usual cause for reopening a case is that the Commission did not have all the evidence before it, but in this case the Commission's examiners, who took the testimony, stated that the case was unusually complete and that all evidence was received that was offered from any source. At the offices of the Interstate Commerce Commission it was seriously doubted if the Southern operators or railroads could show good cause for reopening the case.

There are, however, three issues raised by the majority's decision which may be found to be in error. The first is the measure of the reasonableness of the Pittsburgh rate; the second is the precedent established for disrupting the general freight rate adjustment, and the third is the attempt of the Commission to equalize economic conditions.

Commissioner Hall, the one Commissioner who sat through all of the hearings, wrote a 20-page dissenting opinion, roundly scoring the majority for finding that the Pittsburgh rate is unreasonably high. He pointed out that the Northern defendant carriers had proved that the present rates are based on rates once established by the Commission and raised and lowered uniformly with all freight rates. He then showed that the lake cargo rates are lower than rates for rail delivery in the port cities and are relatively lower than nearly all other coal rates from the Pittsburgh and neighboring regions. He still further criticised the figures purporting to show the costs of the lake cargo traffic, and as to the majority's contention that this traffic should take a low rate because the emptied cars are returned to the Pittsburgh region loaded with iron ore, Commissioner Hall declares that it is the ore rather than the coal which should get the advantage, if any, of this situation.

Representatives of the Southern operators and railroads at the Washington meeting expressed their serious concern over the possibility of a renewal of litigation on all-rail rates to the larger consuming markets of the North, East and Middle West. They criticised the fact that the reduction was made largely on the basis of the difference in mileage, declaring that if this policy were carried out on all commodities it would seriously interfere with all freight movements throughout the nation. Tennessee shippers particularly condemned the mileage theory as a yard-stick for freight rate adjustment. The thought was expressed that the Commission might reconsider Lake cargo rates if it were brought to its attention that this policy would disrupt the present system of balanced group ratings.

That the rate commission has ignored the actual reasons for the shrinkage of tonnage in the Northern districts engaged

in the lake cargo business was charged by the Southern shippers at the Washington meeting. They declared that the idleness of the Pennsylvania mines is due to their inability to pay the Jacksonville union scale of wages, the age of their mines, antiquated machinery, reserve acreage and failure to install modern mechanical devices for handling coal. The feeling expressed at the gathering was that the Southern fields had in recent years taken the large cargo trade away from the Northern fields because of their more advanced methods of operation in spite of their freight rate advantage, but that the Commission, instead of rewarding their efficiency and enterprise, had penalized them and rewarded the inefficient Northern fields.

This same view was taken by Commissioner Hall, whose dissenting opinion was concurred in by Commissioner Woodlock. Commissioners Eastman, Campbell and McManamy, while agreeing with the majority report in part, also held that freight rates have not been the primary cause for the trend of the lake cargo business away from the Northern fields and toward the Southern fields. Commissioner Hall, in fact, accuses the majority of listening to Pittsburgh's "hard luck story" and forgetting the legal position of the Interstate Commerce Commission in order to correct economic conditions. The Commissioner said:

"No one could watch as I have the gradual unfolding in this record of what has become a human document without a growing comprehension of the interplay of forces which have again thrust to the surface the relatively minor issues here presented, or without a growing sympathy for those that have been caught in the undertow (referring to Pennsylvania's declining coal production). That sympathy should not draw us away from the closer path of duty. Congress has not made of us a special Providence.

"The fluctuations in the Pennsylvania production alone have far exceeded in some years the entire tonnage of lake cargo coal from all districts. These fluctuations can in no wise be accounted for by the unchanging differentials, and, since 1922, the unchanged rates on lake cargo coal, and reflect the play of forces which affect the production, not merely of lake cargo coal, but of all bituminous coal in the producing districts.

"Other things beside the rate must account for differences in tonnage from different districts. Those other things, whatever they are, cannot be ignored when shift of tonnage is instanced as tending to show that the present rate is higher than the traffic will bear or the value of the service justify.

"It is easy and natural to make of the rate adjustment a scapegoat when prices fall or markets are slipping away to competitors; easy because freight rates are tangible, and natural because freight rates are subject to Governmental regulation where prices and costs and wages and the myriad incidents of business operation are not. But rate regulation would be denatured if made into an equalizer of the fortunes and abilities of men, whether in the same or in different localities. Its function is to keep freight rates within the bounds of reason and fairness in the light of attendant transportation conditions, and thereby to afford to all persons and localities the benefits of adequate transportation service."

Commissioner Hall added that the majority acted contrary to the public interest since the consumers in the Northwestern States wanted a smaller, rather than a larger, differential between the Northern and Southern fields.

The Commission and all parties to the case had hoped that this time the lake cargo coal rates would be settled for a long time to come, but it is evident that much more litigation and controversy is in store yet.

Asks Bids on \$750,000 Bank Addition.

Washington, D. C.—Bids will be received until June 17 by the Union Trust Company, Edward J. Stellwagen, president, for the erection of a \$750,000 addition to its building at 15th and H streets northwest, this city. The structure will be nine stories and basement, of Corinthian architecture, block granite, with fluted columns from the fourth to eighth floor. Marsh & Peters and A. B. Mullett & Co., both of Washington, are the architects.

Importance of Agriculture and Plight of American Farmer.

FEATURED IN DISCUSSIONS BEFORE NATIONAL FERTILIZER CONVENTION.

Executives of fertilizer manufacturing companies from 30 States and a score of the world's leading soil scientists from England, Germany and other countries were in attendance at the annual convention of the National Fertilizer Association, held at White Sulphur Springs, W. Va., the first part of the week. Many of those in attendance expect to go to the First International Congress of Soil Science which convenes in Washington June 13 where they are official delegates.

Among the speakers on the convention program of the National Fertilizer Association are Spencer L. Carter, Richmond, Va., president of the association; Sir John Russell, director of the Rothamsted Experimental Station, Harpenden, England; Charles Coolidge Parlin, Philadelphia; Warren Bishop, Washington; Thomas W. Howard, Washington, Virgil Jordan, New York, and E. St. Elmo Lewis, Detroit.

Charles J. Brand, executive secretary and treasurer of the National Fertilizer Association, sounded the keynote of the meeting when he said:

"There is no danger of famine, and the world need never to fear going hungry, because adversity of weather can be minimized by the use of commercial plant food, and its use will increase production of cheaper food whenever the demand arises. But under our present uncontrolled and dumping methods of marketing farm produce, the years of plenty for the consumer are likely to be years of famine for the farmer. All industries that do business with the farmer, and particularly the fertilizer industry, are interested in seeing something done for the farmer which will give him his proper share of the national income, which he is not getting."

Virgil Jordan, economist of the National Industrial Conference Board, spoke on the seriousness of the agricultural situation and said in part:

"Though the city workers and the city industries are profiting today by the cheap food they get at the farmers expense, all economic experience shows that they cannot evade paying their board bill, though it may take another decade for the farmer to collect it.

"In the long run the farm and the factory are mutually dependent and there can be no permanent prosperity at the expense of the other. From the point of view of the national economic welfare, we need the maximum production, which is to the national advantage and to the advantage of the individual producer, from injuring the relative economic position of either the agricultural or industrial group as a whole.

"During the past few months the agricultural problem—the most vital question facing the American nation—has again been turned adrift and left to the casual attention of vacillating political groups and the ineffectual clamor of a few prophets in the wilderness. The experience of the past year should teach us that in this question we cannot safely depend upon the casual and circumstantial efforts of special groups, political or otherwise, for a real approach to the problem. The agricultural problem calls for real statesmanship on the part of our government and for real thinking and public spiritedness on the part of our people as a whole. It affords a real test of democracy, and of the ability of the public to take to heart the long-time welfare of the nation.

"The time has come in the life of the American people, as it has come before in the history of all great nations, when we must deliberately and wisely formulate a national agricultural policy. We must make up our minds as a people whether we are going to continue to sacrifice our agricultural development to our temporary industrial growth, as we have been doing, or whether we are going to adopt the safer and wiser course of

bringing our agricultural, industrial and commercial life into a well balanced and cooperative relationship.

"This issue is inescapable, even though it may be postponed. It is forced upon us by the indisputable facts regarding the present situation and tendencies of our agriculture. The agricultural situation today is not merely a result of the war. There is strong evidence that our agriculture has been increasingly lagging behind the rest of our economic life since the beginning of the century, which marked the commencement of our rapid industrial development. Whether you look at agriculture as an industry, as a business, as an occupation or as a way of living, it is no longer possible to ignore the great economic and social problems which its situation presents.

"The problem, however, does not end with these purely economic considerations. The farmer and farm life play a far more significant role in the national welfare than is involved merely in providing food and materials for city workers and city industries. They have a real function to perform in our social and political life, for the best qualities of American character in the past have been in large part the product of rural life. They cannot be bred in the city or in industrial employment, and if we wish to preserve these qualities, we must preserve the vitality of the rural community.

"The economic soundness of agriculture as an industry and its vitality as a way of living, both depend fundamentally upon the conservation of the soil resource of the nation, upon the best use of the land. Our cities and city industries may appear to be self created but history has shown again and again that the finest flowers of civilization have their roots finally in the physical soil of the country, and that they wither or bear fruit according as that fundamental basis of civilization is wasted or preserved."

Contracts Awarded for \$450,000 Coal-Handling Plant Equipment at Mobile.

Mobile, Ala.—Contracts amounting to \$450,000 to \$500,000 for the big coal-handling plant to be built as a special adjunct of the State docks here have been awarded as follows:

Conveying belt system and movable loading and stocking tower—Robins Conveying Belt Company, New York city.

Unloading tower and unloading and reclaiming tower—Mead-Morrison Manufacturing Company, Boston, Mass.

Car dumper—Link-Belt Company, Chicago, Ill.

The plant will be built on a site at Mobile River and Three Mile Creek, occupying an area about 200 by 900 feet. Three movable towers are to be provided, not only for handling coal, but for other products as well.

Plans and specifications have been issued for Pier No. 3 of the State docks system, and bids will be opened on June 30. Unlike piers 1 and 2, the new pier will be built as an open dock for steamships.

Floodlight System for Natural Bridge of Virginia.

The Natural Bridge of Virginia is now equipped with the most modern floodlighting apparatus, and electric lights totaling several million candle-power are used. Westinghouse floodlight projectors, equipped with chromium-covered metal reflectors with a highly polished surface, and hidden from sight, furnish the illumination. Twenty different banks of lights may be operated to show the bridge in as many different ways. The American Industries Engineering Company, New York city, was in charge of the work. Phineas V. Stephens, electrical and illuminating engineer, designed and supervised the installation. The bridge is illuminated by the river that flows under it, in that Cedar River has been harnessed and the electric power generated serves to supply the necessary current for the floodlighting bulbs.

GULF STATES STEEL COMPANY MAY EXPEND \$3,000,000.

\$4,000,000 of Sinking Fund Gold Debentures Put on Market.

Improvements to and further development of its properties at a cost which may approximate \$3,000,000, will soon be undertaken by the Gulf States Steel Company of Birmingham, Ala., according to recent press announcements. The company advises that it is not yet prepared to make a statement relative to the proposed improvements. It is reported that engineers are at work on a program which may mean increased blast furnace capacity, increased production of by-product coke, electrification and other work. The open hearth, finishing and bar mills will be rounded out, it is said, and improvements made which will further diversify the company's output.

An issue of \$4,000,000 of fifteen-year 5½ per cent sinking fund gold debentures have been put on the market through Hallgarten & Company, New York, for the purpose of retiring certain land purchase notes outstanding in the amount of \$590,000, which were given in connection with the purchase of additional coal lands, and for the further development and improvement of the company's properties. This issue is a portion of \$6,000,000 authorized, of which \$2,000,000 are reserved for future issue.

Over \$1,640,000 Building Permit Total in Five Months at Macon.

Macon, Ga.—The May construction volume in Macon showed an increase of 117 per cent over the total for the same month of last year. The May, 1927, total, according to the preliminary report of W. J. Beeland, building inspector, is \$372,783, compared to \$171,754 for May, 1926. The permits comprise 36 residences of the better class; one small apartment; one small commercial building, and the new Sunday-school plant of the Mulberry Street Methodist Church, costing \$178,000.

The total construction volume in Macon for the first five months of the year is \$1,643,727, compared to \$588,577 for the same period of 1926. This is an increase of 179 per cent, and nearly equals the total of construction for the entire 12 months of 1926, which was \$1,575,649. Incidentally, the year 1926 set a building record for Macon, which means that this year's construction will far outstrip any previous building activities here.

The record by months is as follows:

	1926	1927	Per cent gain
January	\$78,173	\$114,159	46
February	65,604	157,520	140
March	193,751	871,545	34
April	79,295	127,719	61
May	171,754	372,783	117

\$157,200 Premium for \$5,000,000 Missouri Bonds.

Missouri road bonds in the amount of \$5,000,000 have been sold by the Board of Fund Commissioners, Jefferson City, at a premium of \$157,200, according to advices to the MANUFACTURERS RECORD from C. E. Stephens, State Treasurer. The purchasing syndicate includes the Mississippi Valley Trust Company, St. Louis; Guaranty Trust Company, Equitable Trust Company, Ames, Emerich & Co., Barr Brothers & Co., Howe, Snow & Bartels and Frazier, Jelke & Co., all of New York; Marshall Field, Gloré, Ward & Co., Chicago; the Detroit Company and First National Company, both of Detroit; Fidelity National Bank and Trust Company and Stern Brothers, both of Kansas City, Mo. The bonds will be issued in denominations of \$1000 each and will bear an interest rate of 4½ per cent.

\$2,000,000 Resort Hotel Projected by Chicago and New Orleans Interests.

New Orleans, La., June 6—[Special.]—While the flood news of the Mississippi was at its high crest, a group of Chicago capitalists and a New Orleans developer were whipping into shape final plans for building a resort hotel at New Orleans, on the lake front. These plans are now completed, and formal announcement is authorized that work on a \$2,000,000 structure will be begun as soon as the site can be prepared.

The Benjamin H. Marshall Company, Chicago, which is responsible for several prominent hotels in the United States, and John Liuzza, New Orleans, are behind the project. The Marshall Company has wanted to put a resort hotel in New Orleans for several years. By a recent purchase of the old Milne tract on Bayou St. John, a deal totalling about \$1,400,000, John Liuzza is able to offer the company such a waterfront site as it desires.

Mr. Liuzza is to create an island, about 20 acres in extent, near the center of the Milne tract, and give at least half of it to the hotel company. The bayou will be widened at this point, and extended around the island in a navigable channel 250 to 350 feet wide, and material dredged out of here will be pumped upon the island, the surface of which will be raised at least 10 feet above mean tide level. The hotel will face the bayou and will be approached from the rear by a sweeping driveway, which will cross an arched bridge. Mr. Liuzza has in mind the development of Venetian scenes along the bayou and in the interior waterways that eventually will be pushed throughout his entire holdings.

The city of New Orleans is leasing to the hotel company 125 acres of its land on the other side of the bayou in the City Park Extension, for a period of 15 years. The hotel will create a golf course here and expects to spend at least \$150,000 on beautifying and improving this tract.

The hotel will be named the Carnival and will contain about 300 outside rooms, of which one-half will be standard hotel rooms, and one-half kitchenette apartment suites. It will be six stories, and will be in the Louis XVI style, both as to exterior and interior. The structure will be designed and constructed by the Benjamin H. Marshall Company.

Birmingham News Acquires Age-Herald.

Birmingham, Ala.—Through the agency of E. D. Dewitt of Palmer, Dewitt & Palmer of New York the Birmingham News Company, Victor H. Hanson, owner and manager, has acquired a controlling interest in the Birmingham Age-Herald and has combined the two papers, publishing them at the modern plant of the News. The week-day editions of the Age-Herald will continue to be published under that name, while the Sunday edition will be merged with the Sunday edition of the News, the consolidated paper to carry title lines of both papers. The papers will have full-time service of the Associated Press. In connection with the transfer, the Birmingham News Company has placed with the First National Bank of Birmingham a \$900,000 bond issue to be applied in part payment for the capital stock of the Age-Herald Publishing Company and for the purchase of additional printing machinery.

Bids Invited on \$250,000 Home for Women.

Louisville, Ky., June 1—[Special.]—Bids for the erection of the Charles P. Moorman Home for Women here will be opened on June 15 in the office of E. T. Hutchings, Louisville, architect for the structure. The building will be fireproof, three stories and basement, with concrete foundation, slate roof and bar joist construction. It will cost about \$250,000, exclusive of furnishings and equipment.

New Baking Plant at Miami.

The new plant of the Seybold Baking Company, at Miami, Fla., has recently been completed. It is of brick and steel and is regarded as the last word in modern bakery plant construction. Among other interesting construction features worthy of emphasis is the fact that it was built in 102 working days, under adverse conditions, and that it weathered the two tornadoes which occurred in September and October 1926 without suffering any damage.

The building is executed in polychrome terra cotta with basket weave stucco surfaces; the roofing is of hand-made tile of various colors. The architectural effect is Spanish. Particular attention has been given to the machinery layout.

The plant proper on the first floor consists of a make-up department with full bakery equipment, having duplicate sets of dividers, rounders, automatic proofers, moulders, serving a monorail system for the overhead transit of proofing racks to and through a modern proof-box, where the doughs receive their final proof before entering the two large Peterson traveling ovens, 115 feet long and capable of producing 11,500 pounds of bread each hour. From the delivery end of these travelers the bread is carried on conveyors to sorting and picking tables in the cooling, wrapping and packing room, adjacent to the shipping platform and to a large wagon room capable of housing 80 of the company's delivery wagons and trucks. The maintenance division including the power plant, fuel oil storage room, carpenter shop, paint shop, automobile repair shop, etc., is adjacent to the large wagon room.

On the second floor directly over the make-up department is a large mixing room with four five-barrel high speed Benjamin Franklin dough mixers where the dough is mixed and dumped into troughs; these troughs are then moved forward into a large fermentation room, kept under constant and uniform control by humidifying equipment. Adjacent to the dough room is the compressor room with the refrigeration unit, compressors, water cooling tanks, pumps, etc.; all of these serve the various refrigerators, yeast closet, and ingredient room. To the rear of the plant on the second floor

is the flour storage space, well lighted and ventilated; here also the miscellaneous storage is kept.

The office administration is on the second floor. Spacious locker rooms, shower baths, toilet rooms, etc. are provided.

The firms who were engaged in constructing the plant included:

General contractors, Equity Construction Co., New York city.

Plumbing, Eugene Duklauer, New York city.

Electrical work, Walter Knapp & Co., New York city.

Elevator, Otis Elevator Co., New York city.

Heating, A. W. Dovel Co., Brooklyn, N. Y.

Structural steel, Virginia Bridge & Iron Co., Roanoke, Va.

Painting, Laheney Co., New York city.

Sprinklers, Rockwood Sprinkler Co., Atlanta, Ga.

Air conditioning and humidifying equipment, Cooling & Air Conditioning Corp., New York city.

Cooling towers, Cooling Tower Co., New York city.

Monorail system, conveyors and picking tables, Mechanical Handling Systems, Detroit, Mich.

Oil burning equipment, High Low Regulator Co., Warren, Pennsylvania.

Refrigeration equipment, Southern Construction & Supply Co., Atlanta, Ga.

Baking equipment manufacturers included:

Traveling ovens, Petersen Oven Co., Chicago, Ill.

Make-up equipment, Dutchess Tool Co., Beacon, N. Y.

Moulders, Thomson Machine Co., Belleville, N. J.

Mixers, Southwark Foundry & Machine Co., Philadelphia, Pennsylvania.

Flour handling equipment, Baker-Perkins Co., Saginaw, Mich.

This plant, as well as the new Seybold plants at Tampa and Daytona, was designed by The McCormick Company, Inc., of Pittsburgh and New York city, and erected under the direction of one of their field engineers.

The Seybold Baking Company is one of the subsidiaries of the Southern Baking Company operating 14 plants in the Southeast. Harry D. Tipton, president of the company conceived the general scheme of the Miami plant, and personally supervised every detail in connection with its construction.



NEW PLANT OF SEYBOLD BAKING COMPANY, MIAMI, FLORIDA.

Contracts for Burlington Water Supply—Large Number of Bids Submitted.

Contracts have been awarded by the City of Burlington, N. C., for the construction of a 30-foot concrete dam on Stony Creek, in Alamance county, and for clearing 150 acres of land for the storage of 500,000,000 gallons of water. An interesting feature in connection with these awards is that more than 25 prominent contractors of the two Carolinas submitted bids,

the contracts going to the two lowest bidders. J. Frank Mitchell of Burlington was awarded contract at \$40,408 for the dam, which will be provided with five-foot headwalls, while Kiker & Yount of Reidsville N. C., was awarded contract at \$5,000 for clearing the land. It is estimated that the proposed storage will provide a 500-day supply, notwithstanding the demand being made on the plant by manufacturing companies in and adjacent to Burlington. Construction will begin at once and is expected to be completed before December. A. C. Linberg of Burlington is the consulting engineer.

\$3,675,000 Houston Bonds Sold at Premium of \$74,821.

W. A. Moore, city secretary of Houston, Texas, wires the MANUFACTURERS RECORD that a municipal bond issue of \$3,675,000 has been sold to Halsey, Stuart & Co. and others of Chicago at par, accrued interest and premium of \$74,821. The interest rate will be $4\frac{1}{2}$ per cent and the bonds will be issued in denominations of \$1000 each. As previously announced, the bonds will be distributed as follows: Water-works, \$500,000; street paving, \$150,000; drainage sewer, \$400,000; sanitary sewers, \$100,000; sanitary disposal plants, \$200,000; fire and police station, \$75,000; alarm system \$75,000; gravel paving, \$100,000; hospital, \$100,000; civic center, \$500,000; roadway, \$800,000; bridge, \$200,000; park, \$100,000; general improvements, \$100,000, and refunding bonds, \$275,000.

Big Merger of Brass Companies Planned.

Negotiations are pending for the merger of the More-Jones Brass and Metal Company of St. Louis, with a number of other corporations in various parts of the country, into a big corporation for the manufacture of brass bearings and other brass and bronze products, according to St. Louis press reports. W. A. Harriman & Co., Inc., of New York, to whom the More-Jones Company referred the MANUFACTURERS RECORD for details, wire that negotiations are not yet complete. One of the companies to be included in the merger, it is said, is the Damascus Bronze Company of Pittsburgh, Pa. It is understood that John B. Strauch, president of the More-Jones Company, will become president of the new corporation.

New Courthouse for Union County, Arkansas.

General construction contract has recently been awarded by the Union County Board of Commissioners, El Dorado, Ark., for the erection of a new courthouse to cost approximately \$750,000. The building will be fireproof, four stories and basement, 160 by 100 feet, of reinforced concrete, Indiana limestone and brick, with reinforced concrete foundation, tile, marble and concrete floors, tar and gravel roof, plate glass, metal sash and structural steel lintels. It will be equipped with two elevators. Mann & Stern of Little Rock are the architects and W. J. Knight & Co., St. Louis, engineers. Charles H. Murphy is chairman of the building committee.

Additional Contracts on Mississippi's \$4,500,000 Hospital for Insane.

N. W. Overstreet of Jackson, Miss., architect for the new Mississippi State Insane Hospital, to be erected near Jackson by the State Hospital Removal, Improvement and Land Sale Commission, R. L. Brown, secretary, Jackson, Miss., at a cost of approximately \$4,500,000, advises the MANUFACTURERS RECORD that the contract for two elevators for the new hospital has been awarded to the New Orleans office of the Otis Elevator Company, New York. Contract has been awarded to S. S. Richard, Franklin, La., for the installation of plumbing in the hospital and receiving buildings, dining hall, official building, two cottages for convalescents and two cottages for attendants, and for completing the heating installation in the hospital and receiving buildings.

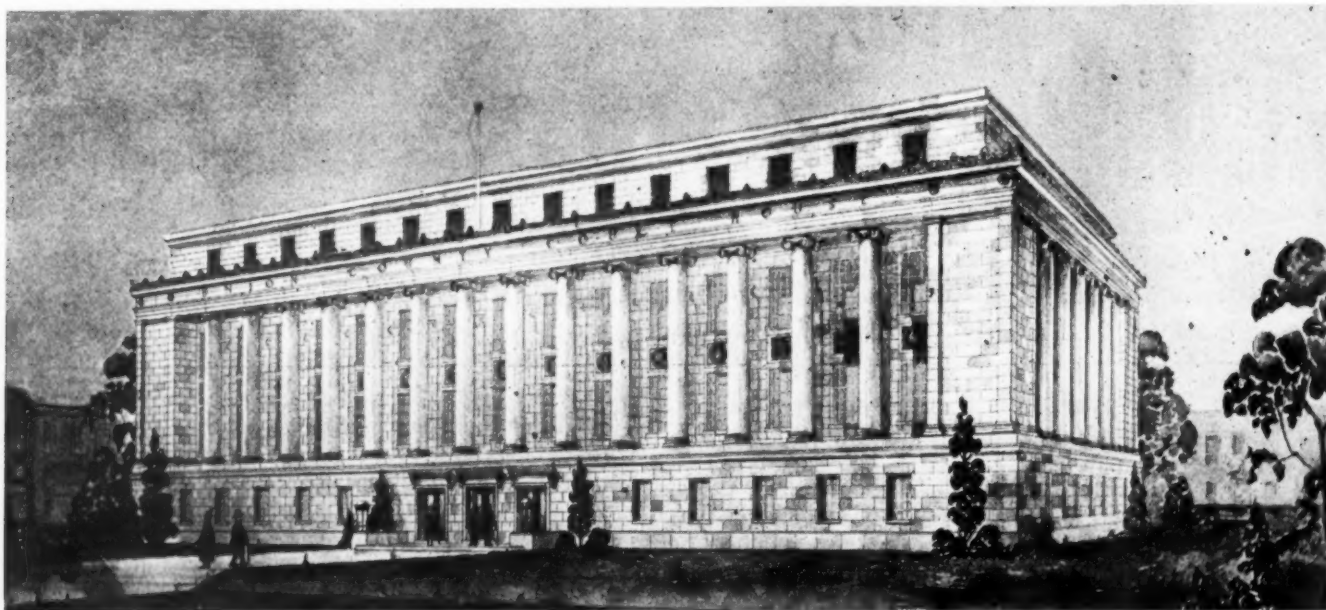
The Warburton-Beacham Supply Company of Jackson was awarded heating contract for two attendants' cottages, dining hall and officials' building, while the Peters Heating Company, also of Jackson, was awarded contract to complete heating for two convalescents' cottages. An electrical wiring contract for two convalescents' cottages, officials' building and two attendants' cottages was awarded to the Michaels Electric Company, Inc., of Norfolk, Va., and for wiring the hospital building, receiving building and dining hall, to the Century Electric Company, Jackson.

Construction of the administration building is about 85 per cent complete and concrete is being poured for the first floor slab of the receiving building. Footings and foundation walls are being poured for the hospital building, while the first floor slab has been poured for convalescents' cottages and brick work started. Excavation has practically been completed for the remaining buildings and the landscape architect is developing the ground.

Bids have already been received on an electrical distribution system, while proposals will be received until June 13 on special hospital equipment, such as continuous baths, sterilizers, electric heating cabinets, surgeons' lavatories, massage tables and other equipment.

First Bale of 1927 Cotton Brings \$1350.

Houston, Texas.—America's first bale of cotton of the 1927 growth netted its growers \$1350 when sold at auction on the floor of the Houston Cotton Exchange and Board of Trade recently. J. J. Cavazos of Mission, Texas, was the shipper.



\$750,000 COURTHOUSE TO BE ERECTED AT EL DORADO, ARKANSAS.

Increased Production and Decreased Shipments of Carbon Black in 1926—South Produces 99 Per Cent of Country's Output.

The production of carbon black from natural gas in 1926 was 180,576,176 pounds, valued at the plants at \$9,939,221, according to the United States Bureau of Mines. This represents an increase in production over 1925 of 3,158,798 pounds, or 2 per cent. Stocks at the plants December 31, 1926, amounted to 108,378,101 pounds, an increase of 12,354,653 pounds, or 13 per cent, over the preceding year. Total deliveries or sales for 1926 were 167,504,710 pounds, as compared with 175,631,326 pounds in 1925, a decrease of 8,126,616 pounds, or 5 per cent. This is the first time since carbon black statistics have been compiled that total sales have shown a decrease.

The distribution of carbon black deliveries among industries in 1925, as determined by a survey only recently completed, was as follows:

	Pounds	Per cent
Rubber	86,329,000	49.2
Export	43,183,000	24.6
Ink	22,389,000	12.7
Paint	11,757,000	6.7
Miscellaneous	11,973,000	6.8
	175,631,000	100.0

Technical advances and the willingness of the carbon black manufacturers to co-operate in the interest of conservation enabled the industry to produce more carbon black from less gas in 1926. The estimated quantity of natural gas used in 1926 to produce the 180,576,176 pounds of carbon black was 130,321,000,000 cubic feet. This indicates an average yield of 1.4 pounds per 1000 cubic feet of gas, an increase of 0.1 pound over 1925, and the highest yield ever recorded.

Louisiana remained the outstanding producing State, its output in 1926 of over 130,000,000 pounds comprising 72 per cent of the total for the country. West Virginia produced 3,804,586 pounds of carbon black in 1926, a decline of 7,043,208 pounds, or 65 per cent, from 1925. Carbon black manufacture at present prices is dependent on cheap gas, of which there is little left in West Virginia. Texas showed the greatest gain in production of any of the States, its output amounting to 36,328,052 pounds as against 26,219,510 pounds in 1925, a gain of 39 per cent. This material increase more than compensated for the decline in West Virginia and Kentucky. Three new plants began operations in Texas in 1926, two of them in Stephens county and one in Hutchinson county. The latter was the first carbon black plant to enter the great Amarillo gas field, though many have been projected.

The channel process remained by far the most important method of manufacturing carbon black, producing 152,300,410 pounds in 1926 as compared with 28,275,766 pounds by the other processes.

Can Potash Be Found in East Tennessee?

Bradenton, Fla., May 19.

Editor Manufacturers Record:

I have been especially interested in your fight for the potash industry of this country and I have this little fact that I want to pass on to you. It may be worth investigating.

I was raised in Eastern Tennessee near Knoxville. Out in Campbell County there is a very large cave known throughout that country as Saltpeter Cave. During the war between the States the Confederate soldiers mined saltpeter from this cave and manufactured explosives there. The old hoppers are some of them still intact, or partially so. The tracks of the mules and sleds on which they hauled the potash are still visible even after these long years.

This property belongs to a man who knows nothing about potash. He bought it to store apples in because of its even

temperature. If there was nitrate of potash there once, I see no reason why it should not be there yet, and possibly in large quantities. I understand one or two men are still there who know something of mining the saltpeter. I know these things because I was raised within ten miles of the cave, and I shall be pleased to render any service possible to forward an investigation.

Doubtless there are few people living in or around that section who know that saltpeter is a form of potash.

F. EMORY SHARP.

Contract for \$1,500,000 Courthouse at Asheville.

Asheville, N. C.—General contract for the erection of the Buncombe county courthouse here has been awarded to the Angle-Blackford Company of Greensboro, N. C., on a bid of \$1,242,849. The structure will cost about \$1,500,000 completed. It will be 130 by 120 feet, 14 stories, with basement and sub-basement, of steel construction with brick, granite, limestone and marble exterior, ornamental columns, tile roof, marble, terrazzo and composition floors and metal casement windows. The building will provide jail accommodations and will be equipped with cell work, ventilating equipment, three passenger and one freight elevators and other facilities. Milburn, Heister & Co. of Washington, D. C., and Durham, N. C., are the architects. Contract for the electrical work was awarded to the Webb Electric Company and for heating and ventilating to Sluder Bros., both of Asheville.

New \$600,000 Hotel for Waco.

Construction is expected to be started in July on a hotel at Waco, Texas, for the Hilton Hotel Company of Dallas, to cost approximately \$600,000, including \$100,000 for furnishings and equipment. The structure will be 100 by 100 feet, 12 stories, of reinforced concrete, to contain 200 rooms. It will



TO BE ERECTED AT WACO FOR THE HILTON HOTEL CO.

be modern in design and construction and will embody the latest and most approved facilities. Provision will probably be made for the construction of a garage in the rear of the hotel, on a site 65 by 100 feet, which will be a part of the project. Lang & Witchell of Dallas are the architects.

Contracts Awarded for \$15,000,000 Natural Gas Pipeline to Serve Cities in Three States.

Bartlesville, Okla., May 31.—[Special.]—Contract for the first section of the natural gas pipeline to make the vast gas reserves of the Texas Panhandle available to cities of Kansas, Missouri and Oklahoma served by the Empire Gas & Fuel Company's natural gas system was let recently to Booth & Flynn of Pittsburgh, Pa.

Work on this line, which will cost in excess of \$15,000,000 will start just as rapidly as the contractors can assemble men and material for the work, and will be pushed to completion and readiness for service by January 1, 1928, according to Empire Gas & Fuel Company officials. Engineers are now at the pipe mills in the East supervising the manufacture of the pipe which will be 20 inches in diameter. Nineteen carloads of this pipe have already been shipped to the job. Both welded and coupled line construction will be utilized. The line will have a carrying capacity of about 100,000,000 cubic feet of natural gas daily.

Five compressor stations with a rated capacity of 13,000 horsepower will be constructed to pump the gas through the lines. The general route of the first section of the line will be from the Amarillo field by way of Pampa, Texas; Woodward, Oklahoma; Anthony and Wichita, Kansas; though some changes in routing may be made necessary because of conditions caused by contour of land. This line will practically double the carrying capacity of the natural gas pipeline system of the Empire and affiliated companies.

The contract for the compressing station equipment establishes a record as the biggest single order for gas compressor equipment ever let in one contract, according to the successful bidder, C. & G. Cooper Company of Mt. Vernon, Ohio, one of the largest engine building companies catering to the natural gas and gasoline business in the country.

In commenting to the Empire Company on the order from them, B. B. Williams, president of the Cooper Company says:

"The contract you have awarded us covering eleven 1,000 horsepower and four 500 horsepower gas-engine driven compressors and the six 190 horsepower auxiliary electric units is, we believe, the largest order ever placed for machinery of this type. We want to cooperate with you to make these the finest compressor stations in America." Mr. Williams assured the Empire officials that this volume of business will be handled promptly so as not to interfere with the general construction program. With the 13 compressor stations now in operation on the Empire natural gas system, these five new stations will make a total of 18 with a total capacity of over 50,000 horsepower.

Contract for New \$2,500,000 Missouri-Pacific Building, St. Louis.

General contract for the erection of the new office building to be erected in St. Louis by the Missouri-Pacific Railroad Company, E. A. Hadley, chief engineer, at a cost of approximately \$2,500,000, has been awarded to the Humes-Deal Company, St. Louis, according to a telegram to the MANUFACTURERS RECORD from E. M. Tucker, architect for the railroad company. The structure will be 100 by 193 feet, 22 stories, with foundation for 8 additional floors, of gray limestone and polychrome terra cotta construction. It will rest on 76 foundation piers and will contain 230,000 square feet of floor space. Mechanical equipment will include 10 elevators, 5 boilers and 3 electric generators in the power plant and a pneumatic tube system. Mauran, Russell & Crowell of St. Louis are associate architects. As previously announced, contract for the foundation and first floor level has been awarded to the John Hill Construction Company of St. Louis.

Nashville Sells \$1,275,000 of Bonds.

Nashville, Tenn., May 31.—Two issues of Nashville bonds aggregating \$1,275,000 have been sold to Eldredge & Co., New York, at a premium of \$2983. They will bear an interest rate of 4½ per cent and will include \$1,000,000 for water-works improvements and \$275,000 for bridge repairs, maturing serially over a period of 40 years.

Texas Cotton Manufacturers' Meeting.

Fort Worth, Texas.—At a recent session in Dallas, the Texas Cotton Manufacturers Association decided to hold its next meeting in Fort Worth on September 22 and local members have already begun to make plans for the reception of visitors at that time. The association has elected the following officers: Clarence R. Miller, Dallas, re-elected president; J. Perry Burrus, Dallas, re-elected first vice-president; J. C. Phelps, Sherman, second vice-president; W. L. Steele, West, secretary, and Reed Childs, Itasca, assistant secretary.

To Develop 155-Acre Subdivision.

Outlining its plans for the development of a subdivision near Jonesboro, Ala., the Bessemer Coal, Iron and Land Company, Birmingham, W. A. Reed, secretary, advises the MANUFACTURERS RECORD that the tract consists of 155 acres south of Jonesboro, which is now a part of Bessemer. It is planned to install a system of drainage, construct streets and avenues and provide parks. The work is being done by Mr. Reed under the supervision of Julian Kendricks and R. H. Gwin, engineers of the company.

Baltimore to Sell \$11,847,000 of Securities.

Baltimore city securities in the amount of \$11,847,000 will be offered for sale on June 16, according to a decision of the Municipal Commissioners of Finance. They will bear an interest rate of 4 per cent and will consist of \$8,095,000 of coupon bonds and \$3,752,000 of registered stock. The bonds will consist of \$3,500,000 of the second sewer serial 1958-1971 loan; \$2,796,000 of paving and bridge serial 1936-1965 loan; \$300,000 of the second conduit serial 1936-1965 loan; \$1,004,000 of the municipal office building serial 1936-1965 loan, and \$495,000 of the Municipal Art Museum serial 1936-1965 loan. Registered stock to be offered will consist of \$2,012,000 of the second water serial 1951-1964 loan and \$1,740,000 of the second school serial 1924-1948 loan.

Georgia Peach Crop Estimated at 15,000 Cars.

Macon, Ga., June 6.—[Special.]—With early varieties of peaches already starting to market, officials of the Georgia Peach Growers Exchange estimate that the crop will reach a total of 15,000 cars. By varieties, anticipated shipments are as follows: Mayflowers, 85 cars; Uneedas, 226; other early varieties, 24; Early Rose, 24; Carmen, 748; Hiley Belles, 3704; Georgia Belles, 1457; Elbertas, 8450; Hales, 421 and other late varieties, 27 cars. As usual, the bulk of the crop will be Elbertas.

There is a noticeable reduction in the number of carloads of early varieties this year, growers having eliminated these to a large extent from their orchards. While the crop is much shorter than expected, due to late frosts in many sections, the peaches are of good quality and should bring good prices on the market.

The Lake Charles Harbor and Terminal Commission, Lake Charles, La., will receive bids until June 14 for the purchase of a \$500,000 bond issue for building additional warehouses and wharves and for enlarging dock facilities.

NEWS AND VIEWS FROM OUR READERS

[Publication in this department of letters from our readers does not mean that we either approve or disapprove the views expressed. We believe in a full and frank discussion of the mighty questions of the hour, for only in this way can the truth be found. Therefore, we often publish letters with which we do not agree.—
Editor Manufacturers Record.]

Lindbergh's Father, Like His Son, Had the Courage of His Convictions.

HENRY VINCENT, Glennville, Ga.

How many about this time will connect our world hero's name with that of his father, when an outstanding figure in Congressional debates, especially preceding the enactment of the Federal Reserve Act? This father was the minority member of the committee reporting out that measure, and his closing appeal contained a forecast of the operation of the Reserve Bill which reads now much as a prophecy, concerning which the general reader can better express himself today than at the time it was voiced.

In that memorable, though short address Hon. Chas. A. Lindbergh is recorded as saying:

"This bill positively abolishes the United States Treasury. * * * It proposes to move all the people's money from the United States Treasury and place it in the vaults of the banks, to be used by them for private gain. It violates every principle of popular democratic representative government, and every declaration of the Democratic party and platform pledges, from Thomas Jefferson down to the beginning of this Congress."

It remained for a man, who for 49 years had served as a Republican appointee in the Brooklyn custom house to follow the operation of the Reserve Act that he might disprove the prophecy quoted above, and what did he find? Before that act began to work, say April 7, 1917, the gold on hand in the United States Treasury amounted to \$2,240,531,589. Gold could be had for the asking from banks everywhere. By August 1, 1919, the gold in the United States Treasury had shrunk to \$693,408,404. A loss of more than a billion and a half, and since that date no gold has been available in banks anywhere; it has entirely disappeared from public use, cannot be had without special engagement even for a Christmas present in small denomination.

How was it done? By gathering up the yellowbacks and exchanging them for Federal Reserve notes, then exchanging these notes for gold at the sub-treasuries and carting the gold to vaults of the banks in the great centers, where it has since been undisputed property of the banks with which to play the markets, foreign as well as domestic, making it possible for these banks to make the prices of cotton, wheat, tobacco, livestock, manufactured products and real estate to suit their own caprice. Thus runs the explanation for more banks closing since that date than in all previous history of the country, wiping out savings of millions of bank depositors and pouring them into the profits of the overgrown financial institutions in the East. Not in the entire history of our country have so many homes been lost to their owners; so many suicides, murders, holdups and divorces, so many girls disappearing never to be heard of by parents or friends, and in general such lowering of moral standards in the community at large.

Our world hero's sire saw all this; warned his countrymen of what would follow in the operation of a single law. And remember, one of the closing acts of the last session was to make the charters of those banks perpetual.

Still we speculate in our simple-minded way if we should not raise more tobacco and less cotton, less wheat and corn, all the while forgetting that our Congress, for whose members we fight and vote to elect, have voted for placing this control of all prices, all our financial affairs, in the hands of twelve money speculators, who compose the Federal Re-

serve Board, with no Government restrictions worthy the mention, or requirements that Government finances be operated in the interests of other than whom this twelve choose to favor.

It should not be difficult today for your readers to form an opinion from their daily experience how well placed was the forecast made to his country by the senior Lindbergh.

Wants Towns and Cities in Flood Region Built on Artificial Hills.

J. M. WHITE, M. D., Montgomery, Ala.

It has been shown that the present methods of flood control are very expensive and, in big floods, fail to hold back the water. Now my plan to utilize the rich land and deal with the great river was suggested by the Indians. In delta lands they built mounds with altitudes above the high water. My plan would be for every delta town or city before building the city, to build itself a mound or hill above overflow, then build the city on the made, or artificial, hill. That is nature's plan as some delta cities are on natural hills. Dredge the river to get soil to build the mounds, then build the city on the artificial hill. Likewise the country people and delta farmers should build mounds above high water on which to build their houses and barns; on every delta plantation there should be several acres of mounds or made land which is built above high water on which to keep stock in high-water times.

This may seem expensive. I am not gifted in mathematics and do not know much about engineering, hence cannot figure the cost per acre to build it above overflow. When once built it would not break and wash away like a levee. Some of the levee could be retained but there would not be need for any levee to protect the towns and farm houses. Do not try to keep up so much levee, let the river overflow its banks and enrich the land as it is impossible to protect all the crops and if the water recedes by June which it always does, a good crop can then be made on the enriched land. Let her run wild as nature intended, not filling its channel with silt and mud as this should be deposited on the delta land. By avoiding the building of so much levee, that expense could be placed on building the mounds. The building of the hills might not cost as much as building and repairing the levees and when the hills were built they would remain forever. Some levees could be retained to protect some special crops. If the levees were built farther back from the river, they might give better protection, and as suggested by engineers the water in the streams higher up could be impounded or stored as would be needed for power, etc. and to help hold down large floods. To store all of it would be unnecessary as there would be no danger to the cities in the lower valley, which were built on the hills. Keep what levees are needed, impound the water higher up stream, build the cities on natural hills or bluffs where possible and where there are no natural hills make artificial hills and build the cities on them.

Where the flood stage of the river is twenty feet, make the artificial hill ten feet above the highest flood stage. If there were 50 or 100 acres of artificial hills with elevation above the overflow in New Orleans, the people there would doubtless feel safer in times of high water, and what a blessing it might be to the city. Of course the problem of flood control of the Mississippi River will be decided by experts but I offer the above suggestions.

THE IRON AND STEEL SITUATION

Pittsburgh Steel Market.

Pittsburgh, June 6—[Special.]—The rate of pig-iron production and the rate of steel ingot production both decreased about 4 per cent from April to May. Decreases at this time of year have been shown by the experience of several years to be seasonal, and the decreases are less than usual, about the same as occurred a year ago, but less than in some preceding years.

Production of steel in the first five months of the year was within 1 per cent or so of the production in the same period last year, and about 5 per cent over the average in the same period in the past four years, 1923 to 1926, inclusive.

Thus the tonnage of last year is being sustained this year, when at the beginning of the year the common impression was that there would be a little decrease, say 10 per cent. Steel tonnage is, however, failing to show the substantial gains from year to year that used to occur. In a way it may be said that the steel industry has now reached maturity. It should be noted that year by year steel performs more service per ton because quality is improved, and thus the usefulness of steel increases even without an increase in tonnage.

Steel buying of the past few weeks has been of particularly steady character, there being little by way of large orders to bring about fluctuations. It is clear that widespread and small lot buying, by a great variety of consumers, has been running heavier than a year ago, because with the total tonnage substantially the same there are various large lines that have been taking less steel than last year. The oil fields are conspicuous in that respect, while there is a little decrease in automobile production and in freight car building.

The Steel Corporation's unfilled obligations in May are estimated to have decreased about 400,000 tons. There were very small decreases in March and April, and the total decrease for the three months runs less than in the same months last year or year before. In May the corporation's shipments were about 90 per cent of capacity, bookings being about 60 per cent.

The steel industry as a whole is now running at a little above 80 per cent. Prospects are that there will be slight further decreases into July, as usual, while the experience of the past three years indicates a seasonal upturn to begin then.

Fabricated structural steel lettings have run relatively light in the past three weeks, at 24,000 tons, 26,000 tons and 29,000 tons, respectively, or about 70 per cent of the average up to three weeks ago.

The Illinois Central's orders for 4500 freight cars, against the inquiry issued recently, are expected to be placed in a few days.

Production of tubular goods, particularly in oil and gas well material, is running below that of a year ago, including a slight decrease in standard or merchant pipe, and wire production is off slightly. Sheets and tinplates are running about the same as last year. Other products have had corresponding increases, but no line stands out as particularly active or particularly dull. There is a smooth flow of orders practically all along the line.

Prices continue irregular in several steel lines, but have shown no definite declines in the past two or three weeks. Prices in different districts do not hang together as well as they used to do. The sheet market has worked its way up to the full asking prices of 2.25 cents on blue annealed, 3 cents on black and 3.85 cents on galvanized, but the market awaits a more crucial test in the next few weeks as old orders, at lower prices, run out.

Connellsville coke is still very dull, spot furnace coke at

\$2.85 to \$3 being below cost of production. A wage reduction is a possibility. Valley pig-iron stays dull, but inquiry is reported in the Cleveland district.

Birmingham Iron Market.

Birmingham, Ala., June 6—[Special.]—Temporary decline in pig-iron make has not had a very dampening effect, optimism still being observed. Two blast furnaces out of commission, blown out recently, one on basic, the other on foundry, will affect the steel industry more than the other class inasmuch as the independent or commercial furnace interests have not disturbed their schedule of production. Sales of iron in the foundry market are just about the same as for the past few weeks, in small lots and a little under the make from week to week. However, there have been no additions to the surplus stocks to speak of and the furnace interests are encouraged. The old contracts are beginning to show reduction. The larger consumers, it would appear, will have to come into the market again, reports being to the effect that they are still with considerable business to fill and their raw material stocks are not very heavy.

Quotation base of iron in the Southern territory is being held at \$18 for No. 2 foundry, and the prospects are that this will be the low price for the year. It is believed in industrial circles here that in the next two weeks considerable buying will have been done for third quarter delivery and that within 60 days there will be a complete recuperation of activities which were noted the first of the year. The first three months showed an increase in the coal and pig-iron production as compared to the same period a year previous. Coke production and steel make also have shown increase. Since the first quarter there has been a decline. The coal output is off around 35,000 tons a week. The blowing out of the two blast furnaces affects the iron make around 500 tons a day. Coke production also is off some.

Survey shows that the cast iron pressure pipe shops are still making the product and delivering steadily. Last week there was a shipment of 24 cars of pressure pipe, 1047 tons from this district by the American Cast Iron Pipe, National Cast Iron Pipe, Stockham Pipe & Fitting, Central Foundry, Interstate Foundry and Sanitary Foundry into the central portion of Illinois, the product being taken to East St. Louis and from there distributed along the lines of the Illinois Traction Company, an electric railroad. A similar movement was made last month. Cast iron pressure pipe prices are still weak, \$36.00 to \$37.00 stated as the base, six-inch and over. The stock on yards at shops is showing reduction right along. The sanitary or soil pipe and fittings trade is still lagging.

Foundries and machine shops are doing fairly well only, with expectation of a turn for the better before long. The Birmingham district is shipping more or less culvert stock into Cuba to be used while the big road program is being pushed in that country. The Birmingham Machine & Foundry Company has additional orders in car lots for its gasoline filling station pumps and automobile lifts. This concern manufactures cotton presses and expects to participate in the rehabilitation which will follow in the Mississippi river flood area.

Coal production is off about 35,000 tons a week, down to 365,000 tons. While much of this is of seasonal explanation, some of it is by reason of depression in general conditions, but operators feel confident the depression is not going to continue through the summer. Several new mines are being developed. The Republic Iron & Steel Company is spending \$240,000 on new tippie and compressed air hoist, the first of the kind in this district, and developing a new slope. The air compressor hoist, of course, will be supplied with electric

power but the peak load every few minutes will not require additional power but the compressed air will do this work.

Independent coke producers are still active with but comparatively few ovens off. The quotations are on a \$5.50 to \$6.00 base for foundry coke.

The old material market is still slow and prices weak and uncertain. Heavy melting steel is firm at \$12 and No. 1 cast at \$15.

Pig-iron and iron and steel scrap quotations follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$18.00; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$18.50; iron of 2.75 to 3.25 per cent silicon, \$19.00; iron of 3.75 to 4.25 per cent silicon, \$19.50; charcoal iron, f. o. b. furnace, \$29.00

OLD MATERIAL.

Old steel axles	\$16.00 to \$17.00
Old iron axles	16.00 to 17.00
Old steel rails	12.50 to 13.00
Heavy melting steel.....	12.00 to 13.00
No. 1 cast.....	15.00 to 16.00
Stove plate	13.00 to 14.00
No. 1 railroad wrought.....	11.00 to 12.00
Old car wheels	12.00 to 13.00
Old tramcar wheels	12.50 to 13.50
Machine-shop turnings	8.50 to 9.00
Cast-iron borings	8.50 to 9.00
Cast-iron borings (chem.).....	13.00 to 13.50

The Metal Market.

New York, June 6—[Special]—Strength and activity have been the characteristics of the metal markets during the past week. Purchasing of copper was the most active since last February, the price making a net advance of $\frac{1}{8}$ cent per pound. Tin advanced to 68 $\frac{1}{4}$ cents per pound, the highest quotation in several weeks; zinc made a net gain of \$4 per ton during the week; lead was creeping higher in the so-called outside market, though official quotations were left unchanged.

The price advances and show of strength were the natural reaction of the extreme dullness of preceding weeks, which had forced some prices down to the lowest levels since 1923 and 1924. Buoyancy among the metals coincided with activity on the New York Stock Exchange. On the days when the ticker tapes were farthest behind in recording stock market transactions the non-ferrous metals were the most active.

Some of the rarer metals are still in a weak condition. Pure platinum has been selling at \$73 per ounce or less. The price of quicksilver was reduced \$2 per flask to \$123, having been held by some dealers a fortnight ago as high as \$130. The price of silver has kept high, usually over 57 cents per ounce. The strength in this market may be due to the fact that the silver producers association is suing the Government for the completion of the purchase of over 14,000,000 ounces of silver at \$1 per ounce, as provided for in the Pittman Act.

Much of the purchasing of metals last week was retroactive or deferred buying. Purchases would normally have been made before but the spectacle of declining prices postponed it. When prices started advancing as they did last week this dammed up demand began to assert itself. It is evident that steps have been taken to curb output in the metals which has been too great. The production of zinc ore in particular has been cut sharply during the past few weeks. At least half of the mines in the tri-State district, centering at Joplin, Mo. are closed because of the low price which zinc ore is bringing, \$38 per ton.

Copper made a net rise during the week of $\frac{1}{8}$ cent, closing at 12 $\frac{3}{4}$ cents per pound, delivered to the Connecticut Valley. The official price of Copper Exporters, Inc. was raised on Friday from 13 to 13.10 cents c.i.f. European ports. The past week in copper has been compared with an early week in February. Then the price had sagged to 12 $\frac{1}{2}$ cents per pound, the recent low point. The price hovered there for but a short time. During February the first week 50,000 tons of copper was sold, though last week sales were estimated at 20,000 tons. Copper producers are somewhat disappointed because this recent purchasing movement did not develop a greater volume.

The chief feature has been the steady business for export

over the past several weeks, commented upon widely. This business has been much better relatively than domestic business. British consumers have complained bitterly at the policy of Copper Exporters, Inc. in limiting sales. The latter state in rebuttal that their aim is to avoid speculation; that the average copper consumer in England resells his raw material and thus disrupts the market; that the normal copper requirements of each British consumer is known by the Americans and the copper allotted accordingly.

The chief copper purchasing during the week was on the part of the brass makers and electrical equipment manufacturers. Makers of copper wire have not been purchasing up to their usual quotas so far this year. Delivery positions wanted were chiefly June and July. This revealed that consumers expect copper to be still cheap by the time they are ready to purchase for August and September.

Sales of tin in this country for the week were 1800 tons, the largest weekly turnover in several months. On two days about 500 tons per day were sold. During the past three months the price of spot tin has fluctuated between 66 and 68 cents per pound, but last week the price had reached 68 $\frac{1}{4}$ cents by Thursday. On Friday, however, a reaction set in when holders of the metal attempted to sell to take profits and found buyers with difficulty.

The statistical position of tin has been improving. During the first five months of this year reserve stocks were eaten into to the extent of 1700 tons. During May the world's visible supply increased from 800 to 1250 tons, according to various estimates. It is predicted that shipments from the Straits Settlements to the United States in June will be 7500 tons, whereas the average monthly shipments are 6500 tons.

Though most of the purchasing of last week was on the part of traders, several consumers became anxious because of the strong market and bought futures quite heavily which were low in price by comparison with prompt tin.

Zinc prices advanced despite the lack of activity due to the curtailment of ore production which output is now at the rate of 10,000 tons weekly instead of 20,000 tons as formerly. Producers have not been pressing the metal on the market and buyers have had to advance bids continually in order to buy. According to figures just issued by the American Bureau of Metal Statistics the consumption of zinc in 1926 per capita was 10.70 pounds as against 10.07 pounds per person in 1925.

The American Smelting & Refining Company, chief producer of lead, kept prices unchanged all week at 6.40 cents per pound, New York. In the East St. Louis district quotations were advanced from 6.05 cents to 6.15 cents during the week. Buying of lead was exceptionally heavy, consumers having become convinced that the bottom of the market was at hand. Purchasing was well distributed among purchasing lines, battery makers, cable manufacturers, plumbing supplies, paint makers and mixed metal manufacturers.

Georgia Manufacturers to Meet at Savannah.

The twelfth annual meeting of the Georgia Manufacturers' Association and conference of State manufacturers will convene at the Hotel DeSoto, Savannah, June 14 and 15. The program includes addresses by United States Senator Walter F. George, J. J. Pelly, president of the Central of Georgia Railway; Prof. Gus W. Dyer of Vanderbilt University; Judge Max E. Land of the Georgia Industrial Commission; George M. Gentry, president of the Georgia League of Credit Unions; Robert S. Parker, general counsel of the Georgia Manufacturers' Association, and other outstanding Southern representatives.

Governor Clifford Walker, in a letter to the association, suggests that the manufacturers of the State combine attendance at the convention with a general observance of "See Georgia Week." It is expected that Dr. L. G. Hardman, Governor-Elect of Georgia, will attend the conference.

RAILROADS

Planning for a Railroad From Brownwood to Corpus Christi, Texas.

Porter A. Whaley, general manager of the Chamber of Commerce, San Antonio, Texas, writes to the MANUFACTURERS RECORD as follows:

"A joint committee of representative business men of the cities of San Antonio, Brownwood and intermediate towns has been appointed for the purpose of endeavoring to interest some of the existing railroads in completing the railroad connections between San Antonio and Brownwood, thus giving San Antonio direct connection with the heart of Central West Texas and the Texas Panhandle plains country.

"At present the San Antonio, Fredericksburg and Northern Railroad, an independent line, operates from this city to Fredericksburg, in Gillespie county, a distance of about eighty miles. In order to reach Brownwood it will be necessary to extend this line from Fredericksburg to Brady, the county-seat of McCulloch county. The plan is to use the "Frisco" railroad into Brownwood. About fifty miles of new construction will have to be made.

"There are many reasons why this 50 miles of new construction would be desirable, since the result will be to put the port of Corpus Christi much closer to all of Central West Texas and the Texas Panhandle, thus giving the port closer proximity to more than 60 per cent of the cotton raised in Texas, and also to the wheat and grain belt of Texas. Corpus Christi now has two main lines of railroad operating into San Antonio. Recently \$5,000,000 were spent by the Federal Government and the State of Texas in completing the port of Corpus Christi. A through railroad from Brownwood via San Antonio to Corpus Christi would be of immeasurable benefit to Texas."

Big Railroad Traffic in New Texas Oil Region.

McCamey, Texas, June 3—[Special.]—The town of McCamey was established a little more than a year ago, but the monthly freight receipts of the Kansas City, Mexico and Orient Railway at this new station have averaged \$350,000, or a total of \$4,200,000, during the last 12 months. To this great revenue there was added almost equally as large a sum from station receipts at Big Lake and Texon. Development of oil fields is responsible for the heavy freight traffic.

In addition to an average of approximately 25 solid trains of crude oil a day over its line, the Kansas City, Mexico and Orient is handling many trains of goods and supplies for the rapidly growing towns along its line. New industries which have indications of permanency are being established at McCamey, Big Lake, Texon and other towns which owe their growth and prosperity primarily to the development of adjacent oil fields. Following the general prosperity that has come to what was an almost desert region a few years ago steps are being taken to construct large storage reservoirs for the purpose of providing water supply for irrigating big tracts of land.

Railroad Equipment Installed This Year.

The railroads of the United States in the first four months in 1927 installed 22,066 freight cars in service, according to reports filed by the roads with the Car Service Division of the American Railway Association. On May 1 they had 26,875 freight cars on order. Locomotives placed in service in the first four months of 1927 totaled 634 and on May 1 217 were on order.

PROSPERITY IN TEXAS PANHANDLE.

Rock Island System Building Railroad; Oil Interests Active; Crop Outlook Fine.

Amarillo, Texas, June 1—[Special.]—When the new line of the Chicago, Rock Island and Pacific Railway between Amarillo, Texas, and Liberal, Kansas, is completed it will cause immediate development of an enormous area of virgin territory rich in oil and agricultural possibilities, according to L. C. Fritch of Chicago, vice-president and head of the operating department of the Rock Island system, who has been making an inspection of the company's lines in the Panhandle.

"We have completed 50 miles of the line north from Amarillo," said Mr. Fritch, "and will build nine miles more immediately. The total new construction to Liberal will be about 150 miles and when this is finished a very rich region will be opened. We look to see the present Amarillo-Panhandle oil fields doing business for the next 25 or 30 years, because they are not going to be wasted. Geologists say that in the meantime other new oil pools, not yet opened, will be producing.

The Rock Island system last year enjoyed the most prosperous year in all its history, Mr. Fritch stated, who went on to say, "We have a very heavy program of improvement this year and will expend over \$10,000,000 on new passenger and freight equipment and new locomotives," he continued. "We have placed orders for 46,000 tons of new steel rails which will be used in replacements and in additional double trackage on the main line. In the last dozen years we have spent over \$125,000,000 on permanent improvements and we are now beginning to reap the benefits. Business in all our trade territory never was better and the prospects are for bumper crops in the tributary areas, and this will stimulate the western tourist travel."

Weekly Car Loadings Above the 1,000,000 Mark.

For the seventh time so far this year loading of revenue freight on the railroads in one week exceeded 1,000,000 cars during the week ended May 21, according to announcement of the Car Service Division of the American Railway Association. Loadings in that week amounted to a total of 1,016,803 cars, which was a decrease of 12,323 cars as compared with the next preceding week, the decline being due principally to the floods in the Mississippi River Valley. Since January 1 there have been loaded a total of 20,326,169 cars which compares with 19,839,025 cars during the corresponding period of last year and with 19,449,531 cars in the same period of 1925. The Pochontas district and the Southern district were the only districts to report increases in the total loading of all commodities for the week ended May 21 this year as compared with the corresponding week of last year.

Pushing "Frisco" Extension to Pensacola.

The Columbus Builder, a monthly publication of the Chamber of Commerce of Columbus, Miss., says that grading on the extension of the St. Louis-San Francisco Railway from Aberdeen, Miss., to Kimbrough, Ala., is rapidly nearing completion and if good weather continues track laying will begin by June 15, starting at Aberdeen and progressing southward. If done at the rate of one mile a day, the track should reach Aliceville, Ala., by September 1 and allowing for unpreventable delays the first train on the extension should reach Columbus by October 1. The distance from Aberdeen to Columbus is 26 miles and from Columbus on to Aliceville it is 32 miles. At the latter point connection will be made with the Alabama, Tennessee and Northern Railroad for Mobile. From Aliceville to Kimbrough the distance is 93 miles and from there to Pensacola, Fla., by the existing line is 143 miles.

Railroad and Agricultural Development Active in the Lower Rio Grande Valley.

Harlingen, Texas, June 2—[Special.]—No agricultural district of the United States will be better provided with railroad transportation facilities, especially in the matter of gathering lines, than the lower Rio Grande Valley when the extensions just authorized by the Interstate Commerce Commission are completed, along with the new lines already under construction. More than two hundred thousand acres of virgin irrigable lands will be opened for agricultural development by the construction of extensions of the Southern Pacific and the Missouri Pacific systems. The total area of land in all of the irrigation districts of the lower Rio Grande Valley is now 516,700 acres, to which two additions embracing a total of approximately 40,000 acres will soon be made. The total area actually under irrigation is a little more than 340,000 acres, the remainder of the land embraced in the irrigation districts having not yet been placed in cultivation, but the aggregate area in the lower Rio Grande Valley which is now irrigated and subject to irrigation is 1,091,900 acres, according to an official survey.

In considering the applications of the Southern Pacific and the Missouri Pacific systems to make still further extensions of their lines in this region, the Interstate Commerce Commission took cognizance of the potential tonnage of the Valley as well as that which it is now producing. The latest permit granted the Southern Pacific provides for extending its line from Harlingen to Brownsville, 30 miles. At Brownsville the road will intersect the Matamoros-Monterey branch of the National Railways of Mexico and the Rio Grande Railway, an independent line that runs to the prospective new deep-water port of Point Isabel. The Missouri Pacific's permit provides for the construction of a branch line from San Benito southeast through virgin territory, a distance of 18 miles. To the San Benito and Rio Grande, a subsidiary of the Missouri Pacific, a permit was granted for the construction of a branch line from San Fernando east six miles.

The Southern Pacific system recently completed an extension of its San Antonio and Aransas Pass line from Falfurrias south to Edinburg and this extension is being pushed forward to Hidalgo, on the Rio Grande, where an international bridge will be built and the road will enter Mexico and intersect the National Railways of Mexico at Reynosa, just opposite Hidalgo. The Southern Pacific is also completing a branch line from Edinburg to Harlingen. It is this line which will be extended to Brownsville. The Missouri Pacific is building a branch line from Raymondville to Edinburg. These several projects involve the construction of 130 miles of railroad in the extreme southern part of Texas by the Missouri Pacific.

The San Benito and Rio Grande Valley Railway was originally intended primarily to serve as a gathering line for the sugar plantations in the irrigated area. At the time it was built the sugar cane industry was carried on extensively. It has since given way to other crops, but the railroad with its many spur tracks running into farms serves a very useful purpose.

Two "Frisco" Appointments.

Charles Thorburn, soliciting freight agent in St. Louis for the St. Louis-San Francisco Railway has been promoted to traffic manager of the Muscle Shoals, Birmingham & Pensacola Railroad Company, a subsidiary line with headquarters at Pensacola, Florida. Mr. Thorburn succeeds Gordon L. Oliver, who has been traffic manager of the Muscle Shoals road for a year. Mr. Oliver has been promoted to traffic manager of the Texas Lines of the system with headquarters in Fort Worth, Texas, succeeding W. C. Preston, who resigned from the service.

TEXTILE

Contract Soon for 30,000-Spindle Mill.

The West Boylston Manufacturing Company of Easthampton, Mass., recently reported to build a cotton mill near Montgomery, Ala., wires the MANUFACTURERS RECORD that plans are now in the hands of contractors and that contract is expected to be awarded in Atlanta on June 8. As previously announced, the company will begin its Montgomery operations with a minimum of 30,000 spindles and complementary machinery. Robert & Co, Inc., of Atlanta, engineers for the project, advise that contracts have already been awarded for grading work and sidings.

The company, it has been stated, will move to Montgomery the newest and most modern unit of its mill in Easthampton, and in addition to a mill building will erect a warehouse and village of more than 100 dwellings. A site of approximately 150 acres was selected for the plant.

New Silk Mill for Burlington Capitalized at \$500,000.

H. B. Skinner, secretary of the Chamber of Commerce, Burlington, N. C., advises the MANUFACTURERS RECORD that J. Spencer Love, Glenn Holt and others are organizing a new company to be capitalized at \$500,000 for building a silk mill at Burlington. The mill building will be of brick, about 112x170 feet, one story, with loading platform, railroad sidings and other facilities. It will house approximately 100 silk looms initially and will be located in Piedmont Heights. Plans of the new company also call for the erection of dwellings for employees. Mr. Love will become the manager of the enterprise.

Hosiery Mills to Operate by August.

Narrows, Va.—Application has been made for a charter for the Cavalier Hosiery Mills, Inc., with an authorized capital stock of \$50,000, for the establishment and operation of a plant here to make a specialty of men's and boys' sport and golf hose. The mill will be one of a chain controlled by the Victorious interests of New York, and is expected to be ready for operation by August 1. Officers of the company include Dr. E. L. Caudill, Narrows, president; T. J. Wallner, Pulaski, vice-president and general manager; P. H. Hale, secretary, and C. R. Adair, treasurer. A building to house the industry has been leased from the Narrows Wholesale Corporation.

Reorganized With \$1,200,000 Capital Stock.

Austin, Texas, June 6—[Special.]—Permit to do business in Texas has been granted by the Secretary of State to the Worth Mills of Fort Worth, incorporated under the laws of Massachusetts, to take over and operate the cotton mill at Fort Worth which was built in 1925 by a domestic corporation. The reorganized company has a capital stock of \$1,200,000, with Charles L. Harding of Boston, president, and Don T. Towers, superintendent of the mill, vice-president. The mill makes cord tire fabric exclusively.

May Build 50 New Dwellings.

Newberry, S. C.—The erection of 50 new dwellings at an early date is being considered by the Oakland Cotton Mills here, in order to provide housing for additional operatives to run the mill day and night. The company is also replacing 600 looms with new ones. It is at present operating 26,432 spindles and 600 looms in the production of medical gauze and tobacco bed cotton.

GOOD ROADS AND STREETS

Highway Builders Move to Aid Agriculture— Over Million Miles of Road Involved.

An important move in behalf of American agriculture has been announced by the American Road Builders' Association to the effect that construction work on the nation's secondary highway system will receive the immediate attention of the country's road builders. A national meeting of county road officials has been called for June 17 in Washington, when a new county organization will be formed for the purpose of stimulating local road building.

The American secondary road system penetrates every farming community in the country, and includes more than 2,000,000 miles of highway, but partially improved. The resurfacing and reconstruction of a large portion of this system will be a work of great importance to agriculture, particularly as it affects the marketing of products, it is pointed out.

The necessity for organizing the more than 3000 county road officials has long been recognized by the nation's road builders. It was stated by Charles M. Upham, managing director of the American Road Builders' Association, who is directing the new movement. "The hundreds of important roads leading from farming communities to the local markets have not received the attention they warrant," said Mr. Upham. "The new organization of county officials will do much to standardize their highway construction methods, reduce road building costs and give a new impetus to secondary road building."

Virginia Offers \$950,000 Highway Certificates.

Richmond, Va.—The State of Virginia will sell \$950,000 State highway certificates of indebtedness on June 13, it has been announced by the board of sinking fund commissioners. This is the remainder of the issue of \$7,500,000, dated July 1, 1926, authorized by the general assembly at its 1926 session to redeem loans made to the State under the Robertson highway act.

Sufficient taxes derived from motor vehicle fuel and motor vehicle licenses are set aside in a sinking fund for retirement of the certificates at maturity. These special taxes for the year ending June 30, 1926, amounted to \$7,288,000.

Bids Asked on Roads to Cost \$500,000.

Richmond, Va.—Sealed proposals will be received until June 17 by the State Highway Commission for the construction of seven road and bridge projects estimated to cost \$500,000. The work will include .38 mile of bituminous macadam, three projects covering a total of 14.97 miles of concrete, 5.7 miles of grade and drainage work, 1036 feet of sidewalks for a bridge over the Rappahannock River at Fredericksburg and a 167-foot bridge in Greene county over the Rapidan River. Plans are on file at the Richmond office of the commission and at the district offices.

Two Road Contracts for a Virginia County.

Norfolk, Va.—Contracts have been awarded by the Princess Anne County Board of Supervisors for the construction of roads in Seaboard and Pungo districts, at a total cost of \$260,000. The Tunstall-Johnson Company, Inc., of Norfolk will build the Seaboard district roads on a bid of more than \$100,000, while the Roberts Paving Company of Salisbury, Md., secured contract at approximately \$160,000 for building the Pungo district roads. The former will be of sand, clay and gravel with a bituminous surface, and the latter of macadam, cold surface treated.

To Vote on \$2,500,000 Road Bonds.

Rusk, Texas.—A special election on a bond issue of \$2,500,000 has been ordered for June 18 by the Commissioners' Court of Cherokee County for the purpose of providing funds to build roads. Should the bonds be voted, it is anticipated that the county will soon have a system of hard-surfaced roads equal to any in the State.

Texas Awards Contract for Automobile Plates.

Austin, Texas.—A contract has been awarded to the Kittle Manufacturing Company, Los Angeles, Cal., by the Texas State Board of Control for furnishing 1,100,000 sets of 1928 automobile license plates, at a cost of approximately four cents a plate. In compliance with a new State law, the plates will be stamped "front" and "rear" and truck licenses will carry tonnage marks.

\$2,000,000 Tennessee Roads Contracts to Be Let July 8.

Nashville, Tenn.—Contracts for the first group of Tennessee roads to be awarded this year, for which bids were to have been opened June 10 and later postponed, will be awarded on July 8, according to a decision of the Department of Highways and Public Works, C. N. Bass, State highway commissioner. The projects will be located in 10 counties, it is said, and will involve a cost of approximately \$2,000,000.

Road Contracts for \$635,000.

Frankfort, Ky.—Contracts have been awarded by the State Highway Commission for the construction of 11 road projects covering a total of approximately 60 miles and involving a cost in excess of \$635,000. The work will include 23.7 miles of grade and drainage construction to cost \$242,255; 12.4 miles of concrete, \$202,468; 7.83 miles of macadam, \$116,198, and 15.4 miles of gravel to cost \$75,483.

Maryland Roads and Bridges to Cost \$248,000.

Low bids submitted to the Maryland State Roads Commission, Baltimore, for the construction of nine road and three bridge projects reach a total of more than \$248,000, according to a tabulation of figures by the commission. Four projects covering 3.77 miles of concrete will cost \$85,104 and four projects covering 10.25 miles of concrete shoulders, including resurfacing on 5.82 miles, will cost \$134,455 in the aggregate. One project embracing 1.7 miles of gravel road will cost \$11,769. The three proposed bridges will cost \$17,526 in the aggregate.

\$2,000,000 Highway Bonds Sold by Three South Carolina Counties.

A \$2,000,000 highway bond issue of Richland, Lexington and Saluda counties, South Carolina, has been sold by the Capital Highway Commission, B. W. Crouch, chairman, Columbia, at \$2,042,500. The purchase was made on a combined bid submitted by the following firms: Weil, Roth and Irving Company, Seasongood & Mayer and the Provident Savings Bank and Trust Company, all of Cincinnati, Ohio; Prudden & Co. and W. L. Slayton & Co., both of Toledo, Ohio; Columbia National Bank, Columbia; Robinson-Humphrey Company and George H. Burr & Co., both of Atlanta, and M. F. Schlatter & Co., New York. The bonds will be issued in denominations of \$1000 and will bear an interest rate of 4½ per cent.

LUMBER AND BUILDING MATERIALS

BETTER HOME BUILDING WORK.

Some Interesting Facts About Model Home Buildings in Miami and Elsewhere, by a Well-Known Authority.

In reference to the national trend toward better building of homes now sweeping the United States, Frank A. Chase, formerly of Kansas City, Mo., and now of Miami, Fla., and widely known as a financier and building and loan authority, calls attention to the demonstration better-built houses which have been erected in many cities as an excellent medium in educating the public to safe construction. He said:

"I am in hearty accord with all efforts directed to bringing about necessary improvement in the construction of homes offered as security for building loans, and know of no better means to that end than was recently offered through the actual construction and practical demonstration of a better-built house in Miami."

The Miami better-built house was erected during the past winter by retail lumbermen of the city and by the Southern Pine Association which now is engaged in similar projects at Chattanooga and Nashville, Tenn., extending the better-building movement to nation-wide scope. Continuing, Mr. Chase said:

"In building circles it is known that I have been somewhat instrumental in securing recognition of trade-marked and grade-marked lumber as recommended by the Secretary of Commerce, in the national building and loan movement, and I am disposed to do everything in my power to co-operate in emphasizing the necessity of selecting and using building materials best adapted to specific requirements as also enabling the home builder to identify particular grades and species of lumber and building materials.

"As a vice-president of the Dade County Security Company of Miami, Fla., I can say that we have been very much pleased by the results being evidenced in connection with the construction of the demonstration Miami better-built house as a medium of educating the general public to good construction."

Mr. Chase said that his organization had financed the building of more than 10,000 houses in Miami during the past 25 years, and that they now are looking forward to a renewal of construction activity in which they will be disposed to insist on sound building methods as used in the better-built house.

As an organizer and director of the Building and Loan Institute of America, Mr. Chase gained national prominence. He is the author of a number of recognized textbooks on the building and loan plan of financing, and is active in movements for improvement of the building industry.

Southern Pine Meeting at Memphis.

New Orleans, La.—The mid-summer meeting of the Southern Pine Association is to be held in Memphis, Tenn., at the Peabody Hotel, June 22 and 23. Organizing Southern Pine sales representatives into regional groups in the leading centers of distribution throughout the East, Midwest and Southwest is one of the significant accomplishments of the association during this fiscal year. The salesmen's service studies, resulting from the organization of these groups, have produced a volume of information about the salesman's problems and the retailers' attitude toward the product. A complete report of such activities will be made at the meeting, and plans will be devised for their use among the building professions and industrial users of wood.

The General Trade Promotion Committee will hold an open meeting and discuss plans for a vigorous advertising campaign. Numerous trade extension projects to be launched in the near future will be presented to attending delegates.

The Lumber Movement.

Washington, June 2.—The National Lumber Manufacturers' Association interprets reports received by telegraph today from 440 of the leading lumber mills of the country as indicating a slight gain over the previous week for softwood production and shipments, with the order file about the same. Even after making allowance for the smaller number of softwood mills reporting this year, it is apparent that the volume of softwood lumber being produced, sold and shipped, is about 10 per cent less than at this time last year.

The Mississippi Valley floods continue to curtail hardwood production, but have had the effect of stimulating shipments and new business, as compared with last year.

The unfilled orders of the Southern Pine Association were not received in time for publication. For the 72 West Coast mills the unfilled orders were 309,431,660 feet, as against \$297,824,988 feet for 70 mills a week earlier.

Altogether the 290 comparably reporting softwood mills had shipments 104 per cent, and orders 104 per cent, of actual production. For the Southern Pine mills these percentages were respectively 104 and 90.

Of the reporting mills the 269, with an established normal production for the week of 183,617,473 feet, gave actual production 100 per cent, shipments 103 per cent and orders 101 per cent thereof.

The Southern Pine Association reports from New Orleans that new business for the 103 mills taken during the week amounted to 51,973,533 feet (previous week, 60,666,246); shipments, 60,315,729 feet (previous week, 61,017,795); and production, 57,793,818 feet (previous week, 59,286,549). Running time for these mills was not received in time for publication.

The Hardwood Manufacturers' Institute of Memphis, Tenn., reported from 121 mills (32 fewer mills than reported for the week before) large decreases in all three factors. The normal production of these units is 20,328,000 feet.

Southern Mills Get Big Flooring Orders.

New Orleans, La.—One of the largest purchases of yellow pine flooring ever made in this section for immediate shipment has been placed by the Passaic-Bergen Lumber Company of Passaic, N. J. The Lindsley Lumber Corporation, flooring specialists, of Newark, N. J., secured the order, which calls for a total of 400,000 feet of high-grade flooring, 250,000 feet is 1 by 3 inch B and Better flat flooring and 150,000 feet is 1 by 3 inch B and Better rift flooring.

The Dierks Lumber and Coal Company of Kansas City, Mo., will ship the flat flooring and the Pioneer Lumber Company of Elrod, Ala., will ship the rift flooring, all of which will be end matched.

Increased Sales of Turpentine Cups Indicate Larger Production of Naval Stores.

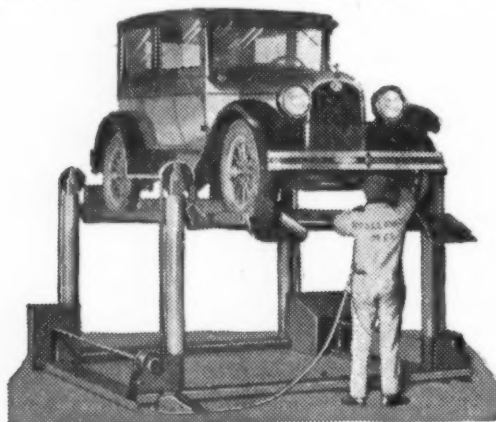
The production of turpentine during the present season (1927-1928) is expected to be considerably greater than in recent years, judging from the number of new turpentine cups sold the past winter. According to the United States Department of Agriculture, sales of cups, including all types, amounted to a total of 32,310,000, equivalent to 3231 crops of 10,000 cups each. This is an increase of 57 per cent over the number sold for last season (1926-1927), which amounted to 20,500,000, equivalent to 2050 crops, and for the 1925-1926 season when 10,059,000 new cups, equivalent to 1006 crops, were sold.

MECHANICAL

Electric Lift for Automobiles.

In the picture herewith is represented a new electrically-operated automobile lift which, according to the manufacturers, the Birmingham Machine & Foundry Co., Birmingham, Ala., saves time, space and labor. This device, which is named Elvo Auto-Lift, it is further stated, lifts even the heaviest automobiles smoothly and steadily without the slightest tilt and lifts them quickly. All to be done is to throw a switch and the machine elevates the car to any desired height up to five feet above floor level. It may be stopped at any height and the lift is locked there so that it cannot move even a quarter of an inch and it is also claimed that the cost for electric power is only one-eighth of a cent per car lifted.

The lift can be installed anywhere on a level floor with an hour's work. No pit is required. It is operated by means of a single-phase, one horsepower motor that is reversible and controlled by a switch. The manufacturers say that most of the installations of these lifts are merely plugged in on a lighting circuit of 110 or 200 volts. A lift can be set up indoors or outdoors as preferred; it is made to withstand the weather. It is fully equipped with motor, gear guards, stopblocks, and sliding grease pan. The purchaser of a lift



HOW THE LIFT LOOKS WHEN IN USE.

can set it up with his own labor as plain and easily-understood directions for installation are sent with each machine. One purchaser says he has used a lift for 45 days which in that time has serviced 402 cars without the least trouble. Lifting a car in this manner makes it easy to inspect, repair, lubricate or wash with the least exertion.

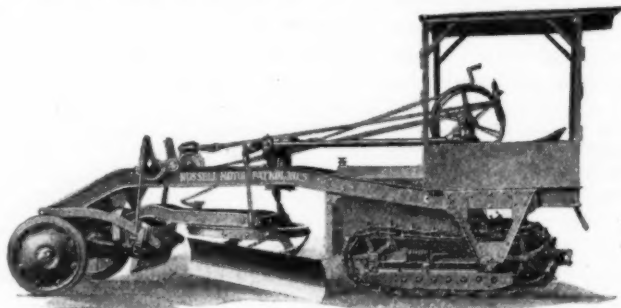
Portable Crane Tractor.

A practical and efficient outfit for work around industrial plants and elsewhere is the Model D Trackson Full-Crawler-equipped Fordson mounted with the new Whitehead and Kales portable crane. For yard work, heavy lifting, and the transferring of castings, flasks, weights, etc., from one part of a plant to another, factories, foundries, and contractors will, it is claimed, find the outfit a time and money saver. It has a decided advantage, since its sure-footedness enables it to go anywhere, in soft dirt, mud, and deep sand, as well as over rough ground, railroad tracks, etc. This machine, made by the Trackson Company of Milwaukee, Wisconsin, is a heavy-duty crawler especially designed for heavy work with holsts, cranes, etc., where great crowding action at low speeds is desirable, and for work in very difficult ground conditions. It converts the Fordson into a 3-ton crawler tractor, with plenty of power. The crane is of one-ton capacity.

New Motor Patrol for Roads.

The machine shown in the accompanying half-tone illustration represents the practical adaptation of the Russell Model blade and scarifier mechanism to one of the well-known and proven makes of tractors, the complete machine being known as Russell Motor Patrol No. 5, and it is the latest product in the line of road maintenance machines from the plant of the Russell Grader Manufacturing Co., of Minneapolis, Minn. The motive power is a Cletrac K-20 tractor.

This new road unit is built for light and quick as well as for heavy and slower work, and the design is for insuring



MOTOR PATROL AS IN OPERATION.

economy, better execution, better service and lower cost of up-keep. The standard length of blade with this machine is 10 feet, although other lengths are also furnished. The back of the blade is reinforced by two heavy angle irons which support the blade and the circle also supporting it is 52 inches in diameter, affording wide and rigid support. A clamping device on the circle locks it and prevents all play. A snug fitting and dependable lock is also a feature.

The blade is raised and lowered by an easy-running, cut worm-gear, which is enclosed in a machined housing, keeping it free from dust. Bronze bushings and collars are on the worm shaft. Other features are: Shafts of the lifting arms of high carbon steel, keyed to both gear and lifting arms; take-ups for wear, in worn brackets and forward left-arm brackets; ball and socket connections for lifting links.

The center shift allows shifting the blade to either side of the frame; it is rack-and-pinion type, operated by worm and gear. The front wheels are 32x5 inch rubber tired, with Timken bearings and a spread of 53 inches. The scarifier is independently adjustable from the rear platform, working with blade; or independent of blade, as desired.

Southern Pine Trusses in White House Found Sound After 113 Years.

The durability of Southern pine is convincingly shown by the condition of the trusses of long-leaf pine which, after serving for 113 years, have just been removed from the roof of the White House, according to W. F. Lusk, construction superintendent for the N. P. Severin Company, Chicago, Ill. That company has the contract for structural work in connection with renovating the building. "The trusses were made of the heart stock of the tree," Mr. Lusk said, and as far as the wood is concerned they would last for years to come, but the old-fashioned method of joining the lower and top chords of the trusses has weakened them at the intersection. The heart stock of the tree was used for its strength and toughness.

"Even today heart stock pine can be obtained with a specific gravity so much greater than water that it will sink to the bottom like lead, and pitch pine timber cut from heart stock will live exposed to the atmosphere almost forever."

Some of the trusses removed will be preserved by historical and patriotic societies.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airplane Plants, Stations, Etc.

Ala., Dothan—City, reported, voted not to sell light and power plant. Address The Mayor. 5-5

Fla., Pensacola—Newport Construction and Engineering Co. has contract at \$207,000 for 2 steel and concrete seaplane hangars for Naval Air Station. 5-5

La., Coushatta—Red River Bridge Co., Harry Bouvay, 1263 Agnes St., Memphis, Tenn., principal owner, plans \$300,000 Red River toll bridge; Mike McCuing, Atty. 5-5

Mo., Jefferson City—Missouri National Guard and Chamber of Commerce, reported, interested in establishing aviation field.

Mo., St. Louis—City, Board of Public Service, receives bids June 28 for Wabash viaduct, with 18-ft. clearance between rails and viaduct; Victor Miller, Mayor.

N. C., Durham—Pittcain Aviation of North Carolina, Inc., capital \$25,000, incorporated; Jones Fuller, 412 E. Main St., Durham; F. Stanley Surman, Frank S. Muzzey, Land Title Bldg., both Philadelphia.

Va., Richmond—Board of Public Works, G. M. Bowers, Asst. Director, acquired 100 acre tract near Severn Pines, develop airport; cost of purchasing and developing at \$30,000.

Bridges, Culverts and Viaducts

Proposed Construction

Ark., Dardanelle—Yell-Pope County Bridge Dist. Comms. plan awarding contract by July 1 for free 30-ft. steel bridge across Arkansas River at Dardanelle; 2432 ft. long, 24-ft. driveway, 5-ft. walk; replace old pontoon bridge. 6-2

Fla., Jacksonville—Ponce de Leon Beach Corp. contemplates constructing and maintaining toll bridge across Nassau Sound between Big Talbot Island, Duval County, and Amelia Island, Nassau County, to connect with Bay Shore Company toll road.

Fla., Leesburg—State Road Dept., Tallahassee, plans bridge over Dead River, between Leesburg and Tavares, Lake County; J. L. Cresap, State Highway Engr.

Fla., Tampa—Davis Islands, Inc., plans bridge across Grand Canal at South Davis Blvd.; Stone & Webster, Inc., Executive Mgrs., Tampa.

Fla., West Palm Beach—See Roads, Streets, Paving.

La., Shreveport—Caddo Parish Police Jury, Room 621 Slattery Bldg., receives bids July 1 for bridges and structures, Forbing Caspianna Road, 48,576 lb. reinforcing steel, 1560 lin. ft. creosoted timber trestle piling, 71,000 cu. yd. earth work; Soda Lake Bridge, 15 mi. northwest of Shreveport, 26,420 lb. reinforcing steel, 2740 lin. ft. treated piling (approach trestle), 114,900 lb. structural steel, 110-ft. span, 29,000 cu. yd. earth work in approaches; plans from J. T. Bullen, Parish Engr.

Maryland—State Roads Comn., received low bids for 3 bridges. See Roads, Streets, Paving.

Mo., Hyattsville—State Roads Comn., John N. Mackall, Chmn., Baltimore, plans viaduct over railroad tracks on Washington Blvd., at Hyattsville, few hundred feet east of present grade crossing.

South Carolina—State Highway Dept., receives bids for 3 bridges. See Roads, Streets, Paving.

Tennessee—Dept. of Highways and Public Works receives bids for 12 bridges. See Roads, Streets, Paving.

Tenn., Nashville—Davidson County Highway Comn., Finley M. Dorris, Chmn., receives bids July 1 for steel and reinforced concrete bridge across Cumberland River, about 10½ mi. from Nashville, one 320-ft. and two 160-ft. steel spans, 1300-ft. reinforced concrete or structural steel approach, with fills at each end of bridge, 36-ft. roadway, Channel span clearance about 93 ft. above pool level; plans on file, and from Freeland, Roberts & Co., Engrs. 3-31

Tex., Amarillo—City, Jeff D. Bartlett, Mgr., plans viaducts or grade crossings, including viaduct across Denver tracks to North Amarillo, cost \$100,000. See Financial News—Bond Issues Proposed. 5-5

Tex., Lagrange—State Highway Comn., plans bridges and culverts. See Roads, Streets, Paving.

Tex., Point Isabel—Col. Sam Robertson, promoter of Oceanside top road, on Padre Island, plans expending \$75,000 for 1½-mi. causeway connecting mainland at Point Isabel with Clark's and Brazos Islands. 3-10

Virginia—State Highway Comn. received low bids for 8 bridges. See Roads, Streets, Paving.

Va., Norfolk—Norfolk-Portsmouth Bridge Corp., C. M. Jordan, Pres., receives bids June 20 for bridge across Southern Branch of Elizabeth River, connecting Portsmouth and South Norfolk; Howard Harrington & Ash, Conslt. Engrs., 1012 Baltimore Ave., Kansas City; Hubert G. Masey, Associate Engr., 321 Dickson Bldg. 5-12

W. Va., Huntington—City plans \$8000 to \$10,000 concrete bridge over Pat's branch on Riverside Drive, Guyandotte; H. H. Fielder, Clk.

Contracts Awarded

Ga., Waycross—D. W. Morgan, Waycross, has contract for concrete canal bridges on Lott and Brunel Sts. 5-26

La., Bastrop—Morehouse Parish Police Jury, J. W. Broadnax, Pres., let contract to Vincennes Bridge Co., Vincennes, Ind., for construction of 493 ft. creosoted timber approaches and 100-ft. span over Bayou Bartholomew, at Point Pleasant; American Creosoted Works, Inc., 1305 Dublin St., New Orleans, to furnish creosote piling, and all other creosote timbers; Parlor City Lumber Co., to furnish untreated lumber; approximate total cost \$19,000. 4-28

Okla., Ada—Cantrell & Kirk, Okmulgee, has contract for pontoon bridge between Ada and heart of Seminole oil field, at site of old low-water bridge, 2 mi. north of Francis.

Oklahoma—State Highway Comn. let contracts for 2 bridges. See Roads, Streets, Paving.

Tex., Tyler—Austin Bridge Co., 1813 Clarence St., Dallas, has contract at about \$16,980, for concrete bridges in Troup Road Dist.; replace wooden bridges.

Canning and Packing Plants

Fla., Frostproof—Florida Fruit Cannery, Inc., capital \$25,000, chartered; Robert T. Dewell, Luther W. Cobbey.

La., DeRidder—Chamber of Commerce, J. K. Smith, Sec., interested in securing citrus fruit packing shed. See Want Section—Machinery and Supplies.

Clayworking Plants

Miss., Hattiesburg—American Brick Co., capital \$60,000, incorporated; M. H. Cox, S. J. Caddy. 5-26

Mo., St. Louis—Evans Howard Brick Co., 5200 Manchester St., reported, let contract to Humphries Construction Co., 841 Pierce Bldg., to improve clay tile plant, cost \$20,000.

Coal Mines and Coke Ovens

Ark., Van Buren—Central Anthracite Coal Co., capital \$50,000, incorporated; William McLachlan, Ed L. Matlock; has acquired Sunshine mine at Spadra; develop 240 acres; daily output several hundred tons.

Tenn., Chattanooga—Juliana Coal Co., Birmingham, Ala., reported, acquired 2500 acres coal and timber lands in Grundy County, near Tracey City; will operate; John S. Stone wires; "Acquired land, no plans for developments."

Concrete and Cement Plants

Ark., White Cliffs—Lime Products Co., A. D. Bank, Pres., Little Rock, reported, erect \$1,392,000 cement plant; Lund Engineering Co., Home Insurance Bldg., Little Rock, Engr., wires: "500,000 bbl. mill now financed; plans for wet process or gas fuel electric equipped plant ready in about 60 days; no contracts awarded." 2-17

Ga., Savannah—See Want Section—Machinery and Supplies.

Tenn., Knoxville—Dempster Construction Co., 425 W. Church St., reported, has contract for 1600 ft. side track for Volunteer Cement Co.; cost \$15,000; F. H. Lewis, Engr. 5-12

Tex., Fort Worth—Bent Concrete Pipe Co., 3501 E. First St., incorporated; Harry B. Tellyer, Ernest F. Bent, W. L. Jencks.

Cotton Compresses and Gins

La., Lake Charles—Lake Charles Compress and Warehouse Co., Inc., capital \$75,000, chartered; J. W. Evans, A. J. Mathews, Geo. F. Kelley.

Miss., Quitman—W. H. Mitchell, Philadelphia, plans erecting ginnyery.

S. C., Sumter—Improved Ginning and Seed Co., capital \$100,000, incorporated; C. H. Pfunter, F. W. Naile, J. H. Wensinger.

Tenn., Memphis—Tri-State Compress Co. let contract to J. W. Hull Plumbing & Heating Co., for plumbing for \$500,000 compress; Kaucher-Hodges & Co., Shrine Bldg., Gen. Contr. 5-26

Texas—Farmers Union Gin Co., Memphis, John T. Bishop, Mgr., reported, improve 2 cotton gins in Memphis and 1 at Eli; install extractors and cleaners.

Tex., Lockney—Lockney Gin Co., reported, planning cotton gin.

Tex., Memphis—Walter White, reported, rebuild burned gin.

Tex., Robstown—Arkansas Compress Co. is erecting high density compress on 15-acre site; will operate about July 15.

Cottonseed-Oil Mills

Tex., Taylor—Travis Cotton Seed Products Co., reported, erect seed house, 77x280 ft., frame, cost \$15,000; E. C. Kreisle, Archt., Scarborough Bldg., Austin.

Tex., Taylor—Citizens Cotton Oil Mill Co., reported, erect steel frame, brick building, cost \$18,000; construction by owner.

Drainage, Dredging and Irrigation

Tex., Brownsville—Rice Tract Irrigation Co., capital \$100,000, incorporated; A. Hatten, R. M. Clark, A. Wayne Wood.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Alabama—Alabama Power Co., Birmingham, is constructing 9 miles of single circuit 44kv line on 45 ft. creosoted pine poles; conductor will be No. 4 HD copper supported by 50 kv pyrex insulators; line is being constructed to serve Bear Creek, Phil Campbell and Spruce Pines; completion by August. 6-2

Alabama—Alabama Power Co., Birmingham, granted amendment by Federal Power Comsn., Washington, to extend its license for power project on Tallapoosa River above Cherokee Bluff, to June 7, 1928.

Alabama—Alabama Power Co., Birmingham, applied to Alabama Public Service Comsn., Montgomery, for petition for power development on Lock 17, Warrior River.

Arkansas—Beverly Bogert & Co., R. E. Wilsey & Co., Inc., and A. E. Fitkin & Co., all Chicago, are offering \$340,000 first mortgage 6% 30 yr. sinking fund gold bonds of Arkansas-Missouri Power Co.; company owns electric light and power, ice and water properties in Arkansas and Missouri.

Florida—Federal Power Comsn., Washington, D. C., granted preliminary permit to Florida Power Co., St. Petersburg, for concrete and earth dam 20 ft. high and power house with installed capacity of 8000 h. p. at Donegan's Mill on Santa Fe River in Alachua and Columbia counties.

Florida—Florida Power and Light Co., Ingraham Bldg., Miami, reported, plans following: Electrical extensions and improvements to Miami, including reconstruction of underground electric power system in N. W. Third Ave., construction of feeder from Coconut Grove substation to Bird Rd.; relocation of transformers, installation of lighting arrestors, short gas main extensions and installations, equipment for pumping station at golf grounds, water mains in Allapattah Homesites subdivision, electrical improvements in Coral Gables, water mains in San Vicente St., Riveria Drive, etc.; electric extensions and street lighting in Hialeah, Fulford, Seaboard Park, Perrine Country Club Estates, installation of submarine cable from Rio Alto Island to Belle Island, transformers for Miami Beach, development of 13 kv. distribution system, reconstruction of street lighting systems of Normandy Beach and Normandy Isles; total expenditures \$1,204,000.

Fla., Jacksonville—City Comsn. receives bids June 27 for constructing and installing equipment for city light plant. See Want Section—Electrical Plant.

Fla., Kissimmee—City, reported, voted not to sell light and power plant. Address The Mayor. 5-5

Fla., Miami—Florida Power and Light Co., Ingraham Bldg., reported, erect concrete fire retaining wall around oil storage tanks; cost \$10,000.

Fla., Monticello—H. R. Cook & Son, reported, have contract at \$10,000 for installation of white way.

Fla., Tampa—City, plans installing white way system on Platt St. from Franklin to Howard Ave., cost \$7727; Tampa Electric Co., Michigan and Morgan Sts., will probably receive contract.

Ky., Middlesboro—Kentucky Utilities Co. let contract to L. C. Powers and Sons, Pineville, for pumping station.

Ky., Owensboro—R. E. and P. C. Bryan, reported, has contract for concrete spray pool at electric light plant; materials include 23,000 lbs. of steel, pool will be 197x128 ft. 4½ ft. deep; bids for piping and equipment not let; Charles Brossman, Consult. Engr. 5-5

Ky., Stearns—Edward Allen, Room 711, Chicago, Ill., applied to Federal Power Comsn., Washington, D. C., for permission to erect dam 360x400 ft. high with power house on Great South Fork of Cumberland River, near Stearns, in McCreary county, Ky. and Scott, Pickett and Fentress counties, Tenn.; develop installed capacity of 130,000 h. p.

Louisiana—Ernest Jacobson, Pres., United Public Service Co., 100 W. Monroe St., Chicago, Ill., announces completion of merger of 26 ice and fuel companies in Southern States

into a \$15,000,000 subsidiary of company; properties located in Tennessee, Louisiana and Mississippi. 5-5

Md., Baltimore—Consolidated Gas, Electric Light and Power Co. will erect 1-story brick addition S. E. Gould St.; 96x57 ft.; steam heat; cost \$150,000; construction by owners.

Missouri—Priester-Quail & Condy, Inc., Davenport, Iowa, recently offered \$150,000 1-yr. 5½% gold notes at 100 and interest of Missouri Electric Power Co.; company supplies electrical energy in Sullivan, Fredericktown, Marshallfield, Mansfield, etc.; operates under supervision of Central States Power and Light Corp.

Miss., Bay St. Louis—Mississippi Power Co., Gulfport, reported, rebuild electric distribution system.

Miss., Eupora—Inland Utilities Co., 1310 Liberty St., Kansas City, Mo., reported, establish \$250,000 power plant; supply Mathison, Mabens, Stewart, Kilmichael, Calhoun City and Derman.

Mo., St. Louis—Inland Power and Light Corp., Ambassador Bldg., controlling 2500 miles of transmission lines, will operate properties with headquarters in St. Louis; Missouri properties include, Missouri Public Services Co., Trenton Gas and Electric, Trenton; People's Gas and Electric Co., Chillicothe; Missouri Gas and Electric Co., Calnesville, and West Missouri Power Co.

Mo., St. Louis—Board of Public Service receives bids June 28 for 4400 standards for white way system.

N. C., High Point—North Carolina Public Service Co., Greensboro, reported, to supply Deep River Mills at Randleman with power; is constructing substation.

South Carolina—Savannah River Electric Co., Greenwood, applied to Federal Power Comsn., Washington, for license to construct dam 90 ft. high and 4200 ft. long, with power house and transmission lines on Savannah River, in McCormick county, S. C. and Columbia county, Ga.; installed capacity 34,000 h. p. 5-19

S. C., Charleston—South Carolina Power Co., reported, improving and extending power plant ft. of Charlotte St.; cost \$600,000; erect concrete, reinforced steel boiler room, install three boilers, Walsh & Weidner Boiler Co., Chattanooga, Tenn., each 509 h. p., stoker fed; new unit by General Electric Co., Schenectady, N. Y., 10,000 kw. 5-26

S. C., Saluda—Town granted franchise to Broad River Power Co., Columbia. 5-5

S. C., St. Matthews—Broad River Power Co., Columbia, reported, acquired city light system.

Tenn., Blountsville—Bristol Gas and Electric Co., Bristol, Va.-Tenn., is completing 6600 volt power line from Bristol to Blountsville.

Tex., Athens—Texas Power & Light Co., Interstate Bldg., Dallas, reported, acquired light plant.

Texas—Kansas Power Co., Topeka, Kan.; Dalhart Public Service Co., Dalhart; Arkansas-Missouri Power Co., Dodge City, Kan.; Missouri Public Service Co., Michigan Public Service Co., Cheboygan, Mich., reported consolidated into Inland Power and Light Corp., E. A. Fitkin, Pres., 165 Broadway, New York; through exchange of stock the Commonwealth Light and Power Co. and Interstate Electric Corp. have been eliminated from structure through which Fitkins interests control operating companies.

Tex., Athens—Texas Power and Light Co., Dallas, reported, acquired Athens Light and Power Co.'s plant; has option on LaRue light line.

Tex., Nacogdoches—Texas Power & Light Co., Dallas, reported, plans reconstruction of entire city distribution system in city and high power line from city to Trinidad; Ford Simpson, Mgr., Dallas. 6-2

Va., Richmond—Stone & Webster, Boston, Mass., Budgett, Inc., Chase Securities Corp., Blair & Co., Inc., and Brown Bros. & Co., all of New York, are offering \$3,000,000 bonds of Virginia Electric and Power Co.; proceeds to be used for retirement of floating debt incurred for construction and other capital requirements and for expansion program for completion of and additional 40,200 h. p. generating unit in its Norfolk plant and for transmission extension lines.

W. Va., Huntington—City, receives bids June 20 for monolith system. See Want Section—Machinery and Supplies.

Flour, Feed and Meal Mills

Ky., Hopkinsville—Jones-Hettelsater Construction Co., 708 Mutual Bldg., Kansas City, Mo., advises: "Contract for flour mill for

Acme Mill covers construction of reinforced concrete mill building, 38x79 ft., 6 stories, and concrete warehouse 25x79 ft., 3 stories high; all machinery and equipment is to be furnished by others, but we are to install this machinery; there will be no sub-contractors on this work with possible exception of roofing and glazing." 5-19

Mo., St. Louis—P. S. Wilson, Madison St.; R. N. Walker, 4142 Flora St., and H. A. Berkemeyer, 1131 Dover Place, reported, acquired interest in Hall Milling Co.

Tenn., Jamestown—Jamestown Milling Co., capital \$10,000, incorporated; J. W. Evans, W. L. Wright, Joe Young.

Foundry and Machine Plants

Miss., Corinth—Corinth Machinery Co., H. E. Ray, reported, acquired Southern Engine and Boiler Works, Jackson; will install in local plant.

Miss., Meridian—Thomas K. Marbury plans organizing company with \$100,000 capital to manufacture Cotopaxi refrigerating machine.

Tenn., Chattanooga—American Hoist Corp., Walter Marr, Pres., Hamilton Bank Bldg., will issue \$50,000 in 7½% convertible bonds.

Gas and Oil Enterprises

Ark., Fort Smith—Thompson-Ross Co., 111 W. Monroe St., Chicago, Ill., reported, acquired controlling interest in Industrial Gas and Oil Co. and Twin City Pipe Line Co.

Ark., Smackover—Alba Drilling Co., capital \$10,000, incorporated; J. T. Tanner, M. L. Vass.

Fla., Cocoa—Texas Oil Co., Inc., incorporated; H. Clay Crawford, Jr., S. S. Spencer.

Ky., Louisville—Helium Co., capital \$200,000, incorporated; W. H. Girdler, Audubon Park; E. G. Luenig, Oriole Drive; Richard M. Bean, 1271 Cherokee Rd.

La., Bastrop—Natural Gas Producing Co. of Louisiana, a Delaware corporation, P. McDonald Biddison, Mgr., will construct pipe line from Morehouse, La., to Camden and Pine Bluff, Ark.; have 120,000 acres under lease; pipe line will be laid by Latex Construction Co., Bastrop, and they will make all purchase of pipe and material; cost of entire line \$7,500,000; company has closed contract with Southern International Paper Co. to supply gas required for the \$5,000,000 plant under construction at Camden and for Southern International Mills at Pine Bluff; company is subsidiary of Gas & By-Products Co. which is controlled by Electric Power & Light Co., 2 Rector St., New York. 6-2

La., Shreveport—National Gas Products Corp., reported, establish gasoline extraction plant.

Md., Salisbury—Sun Oil Co., reported, acquired Hearn Oil Co.

Miss., Poplarville—Standard Oil Co., reported, leased 250,000 acres.

N. C., Monroe—Henry L. Sprinkle Oil Co., incorporated; H. L. Sprinkle, Lucille Sprinkle, J. F. Milliken.

Okla., Blackwell—Trinity Oil Co., incorporated; J. B. Woodruff, Braman; C. A. Ward, Peyton E. Brown.

Oklahoma—Phillips Petroleum Co., Kennedy Bldg., Tulsa, reported, construct 200 mi. pipe line, supplying gas from Panhandle field to Tulsa, Oklahoma City, Muskogee, Okmulgee, Shawnee, El Reno, Guthrie. 6-2

Tenn., Elizabethton—George J. O'Neil, Industrial Engr., Central Public Service Co., 209 S. La Salle St., Chicago, and Ed Wagner, Gen. Mgr., Washington County Gas Co., reported, interested in constructing 10 mi. gas line; cost \$100,000.

Tex., Austin—Peoples' Utilities Texas Corp., A. T. Knies, Mgr., 703 W. 10th St., reported, interested in natural gas system.

Texas—West Texas Utilities Co., Abilene, reported, construct 150 mi. high tension transmission line; extend lines from San Angelo to Crane County; erect steam turbine generating plant; supply power to Mertzon, Sherwood, Bernhart, Big Lake, etc.

Tex., Amarillo—Lefors Petroleum Co., Inc., capital \$100,000, incorporated; Dr. A. W. Coffield, G. M. Shaw, George M. Clardy.

Tex., Austin—J. B. Pope, Otto Stolley and W. T. Caswell, all Littlefield Bldg., reported, applied for natural gas franchise.

Tex., Cuero—Southwest Gas Co., J. W. Colvin, Keystone Bldg., Houston, will lay gas mains, main trunk line will extend from Edna to Yoakum and Gonzales; W. J. Colgrove, Engr.

Tex., Galveston—Galveston Gas Co., E. G. Lege, Asst. Mgr., 2422 D St., reported, plans improvements to gas system.

Tex., Houston—Southwest Gas Co., capi-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

tal \$1,000,000, J. W. Colvin, Keystone Bldg., Geo. E. Calvin, 714 Harold St.; company is consolidation of MacThwaite Oil and Gas Co., Pontotoc Pipe Line Co., DeLeon Gas Co., Tri-Cities Gas Co., etc.; plans natural gas pipe lines from South Texas oil fields. 6-2

Tex., Fort Worth—Elpo Co., capital \$10,000, incorporated; W. B. Powell, F. & M. Bldg.; H. R. Elbert, 2115 Park Place; William R. Powell.

Tex., Fort Worth—J. N. Hall Gasoline Co., capital \$25,000, incorporated; I. N. Hall, A. B. Hall, Ike A. Wynn, F. & M. Bldg.

Tex., Lockhart—Southwest Gas Co., Keystone Bldg., Houston, recently secured franchise, has not fully determined upon extension of lines from Gonzales through Luling and Lockhart; work will be delayed pending completion of market survey by Sanderson and Porter. 6-2

Tex., Midland—Gulf Production Co., Gulf Building, Houston, reported, let contract to United Iron Works, Kansas City, Mo., to construct 80,000 barrel tank; will erect 8 car capacity garage.

Tex., Rankin—Illinois Pipe Line Co., Findlay, Ohio, reported, constructing 27 miles of 8 in. pipe line from tank farm at Red Barn to McCamey.

Tex., Sweetwater—Community Natural Gas Co., Dallas, distributing company affiliated with Lone Star Gas Corp., reported, has 25 yr. franchise; will construct 78 mi. pipe line from Ibex to city.

Tex., San Angelo—Barney Carter, Ranger, reported, authorized by City Comm. to transfer franchise to G. L. Ohlstrom & Co.; construct pipe line to San Angelo, Ballinger, Winters, Miles and Rowena.

Tex., Tulla—Consumers Oil Co., incorporated; George Strange, Joe W. Vaughan, E. K. Hulsey.

Tex., Tyler—Smith County Dome Oil Co., capital \$12,000, incorporated; Will G. Goodman, John Hendrix, E. A. Hendrie.

Ice and Cold-Storage Plants

Ala., Gadsden—Alabama Water Service Co. will erect and operate ice plant.

Fla., Ocala—Florida Power Corp., St. Petersburg, reported, acquired Ocala Manufacturing, Ice and Packing Co.

Ga., Tallapoosa—C. A. Hamilton, Anniston, Ala., reported, erect ice plant.

Ga., Waycross—Waycross Ice and Cold Storage Co. will erect plant.

Louisiana—See Electric Light and Power.

La., Monroe—Monroe Ice Co., Inc., capital \$100,000, chartered; Henry Bernstein, 1706 Riverside St.; Murray Hudson, 500 Forsyth Ave.; Paul Fudickar, 309 Louisville Ave.

Miss., Quitman—W. H. Mitchell, Philadelphia, plans erecting ice plant and ice cream factory.

Okla., Oklahoma City—Prague City Ice Co. will increase capacity of plant, 5 to 17 tons.

Tex., Abilene—Banner Creamery Co., O. D. Dillingham, Gen. Mgr., reported, soon let contract for 2-story brick building, 87x126 ft., to house 50-ton ice plant; total cost of building and equipment \$100,000; machinery purchased.

Tex., Beaumont—Refrigeration Sales Co., Inc., capital \$10,000, incorporated; Ed. Stedman, Fifth and North Sts.; Ed. Stedman, Jr., 755 Fifth St.; J. C. Stedman, 2145 Hazel St.

Tex., Comfort—Central Power and Light Co., Frost Bldg., San Antonio, reported, erect ice station and store.

Tex., Junction—Borden Ice Co., capital \$15,000, incorporated; E. R. Borden, L. D. Borden, Sr.; L. D. Borden, Jr.

Va., Richmond—Richmond Ice Co., Inc., reported, acquired Electric Ice Mfg. Co., on Brookland Park Blvd. 4-26

Iron and Steel Plants

Ala., Birmingham—Republic Iron and Steel Co., Woodward Bldg., reported, expending \$240,000 for steel tipples and hoisting machine at Sayreton mines; also opening new mine on seam.

Alabama—Hallgarten & Co., New York, are offering \$4,000,000, 15 yr. 5% sinking fund debenture of Gulf States Steel Co., Birmingham, proceeds to be used for retirement of certain land purchase notes outstanding in the amount of \$590,000, given in connection with purchase of additional coal lands; and for further development and improvement of company's properties; improvements projected are said to include coal ore, blast furnaces, steel plant, coke ovens, finishing mills, etc.

Okla., Bristow—Arnold Iron and Steel

Mills, Inc., James W. Arnold, Pres., Oklahoma City, reported, has building and will equip for making steel bars, wagon tires, railroad spikes, etc.; install rolling mill, mining car supply plant and structural plant for manufacture of light iron bridges and trusses.

Va., Norfolk—Barnum-Bruns Iron Works, Inc., D. F. Barnum, will erect plant to manufacture ornamental and miscellaneous iron; shop 50x60 ft.; office 16x26 ft.; shop, steel frame, corrugated galvanized iron; office, wood frame corrugated iron, wood floors, corrugated iron roof; will install Pels punch and shear, Henry Pels & Son, 90 West St., New York; Owen arc welding machine, The Delta Co., 148 N. Third St., Philadelphia, Pa.; other equipment by Smith Courtney Co., Seventh St., Richmond, Va., and Greensboro Supply Co., S. Davie St., Greensboro, N. C.

Land Development

Ala., Gadsden—City, A. D. Simpson, Chrm. of Committee, plans developing recreation park on Coosa River; build paving pool and pavilion; install recreational appliances.

Ala., Jonesboro—Bessemer Coal Iron and Land Co., W. A. Reed, Sec., American Trust Bldg., Birmingham, advises: "Developing 155 acre subdivision; contemplate installing system of drainage, laying streets, avenues, and parks. Will not be in need of any special machinery; work being done by me under supervision of Julian Kendricks and R. H. Gwin, company's engineers." 5-26

Fla., Avon Park—Davis Realty Corp., incorporated; Walter S. Davis, George W. Davis.

Fla., Eau Gallie—Southeastern Colonization Co., incorporated; M. T. Williams, R. J. Pleus.

Fla., Ft. Lauderdale—J. H. McCready, reported, develop 15,000 acres subdivision.

Fla., Gainesville—Krumrine's, Inc., chartered; J. A. Krumrine, W. E. Fitzgerald.

Fla., Haines City—Frank W. Brown, Inc., chartered; H. T. Brown, Frank W. Brown.

Fla., Hollywood—Land Properties, Inc., incorporated; M. M. Collins, B. E. Carey.

Fla., Jacksonville—W. T. Walker Co., incorporated; W. T. Walker, Barnett Bank Bldg.; G. B. Walker.

Fla., Miami—Miami-Maine Co., Inc., chartered; F. J. Scanlon, M. B. Kelley.

Fla., Miami—Kokomo Corp. incorporated; Wm. I. Phillips, 26 N. Bayshore Drive; L. G. Lindsey.

Fla., Miami—Marian Co. of Miami, incorporated; B. T. Coulter, H. O. Houston.

Fla., Miami—Lakewood Corp., incorporated; Max Zapf, Joseph M. Duffy, 407 N. E. 16th St.

Fla., Miami—Budmar Co., Inc., incorporated; Chas. Ress, Seybold Bl.; Harry Rankow.

Fla., Miami—Las Algalda Corp., incorporated; H. L. Harvey, Charlene Riey.

Fla., Miami—Beaver Investment Co. incorporated; Wm. L. Hargrave, Flagler Arcade; Spears Turley.

Fla., Miami—Martello Towers, Inc., incorporated; P. L. Wilson, Meyer-Kiser Bldg.; H. H. Taylor, 35 E. Sixth St.

Fla., Miami—Florida City Additions, Inc., chartered; J. L. Schochet, Irma Wolf.

Fla., Orlando—Park Ridge, Inc., A. A. Jane, Sec., State Bank Bldg., developing Park Ridge, 9 miles west of Orlando at juncture of Winter Garden and Windermere Road.

Fla., Palm Beach—Equipment Investment Corp., capital \$25,000, incorporated; Hansell Hall, Palm Blvd., T. M. Hall.

Fla., Sarasota—Dannenberg Holding Co., incorporated; George Dannenberg, Alice Dannenberg.

Fla., Sarasota—Sarasota Key Shores, Inc., capital \$16,000, incorporated; Edward R. List, Frank Redd, Downey Bl.

Fla., St. Augustine—Beach Development Co., incorporated; Charles Lucas, Morton Lucas.

Fla., St. Petersburg—Charles R. Hall, 310 Central Ave., Gen. Mgr., Lakewood Estates, is developing subdivision.

Fla., St. Petersburg—R. E. Investment Co., Inc., capital \$10,000, chartered; F. L. Berdo, E. A. Ciron.

Fla., Tallahassee—Brickman Co., Inc., chartered; G. P. Koelliker, E. B. Koelliker.

Fla., Tampa—Ramby, Inc., incorporated; D. H. Burk, V. H. Richardson.

Fla., Tampa—Homesite Realty Co., incor-

porated; Charles H. Brown, 2917 11th St.; T. M. Jones, 706 N. Franklin St.

Fla., Tampa—C. T. Dawkins, Zack & Ashley Sts., incorporated; C. T. Dawkins, Madge Berg.

Fla., Tampa—Palace of Florence, incorporated; Enrique Pendas, 2107 Morgan St.; A. Marengo, 1817 E. Broadway.

Fla., Tampa—Gandy Boulevard Land Corp., incorporated; T. C. Hammond, 404 Franklin St.; James H. Thompson, 100½ E. Lafayette St.

Fla., Tampa—B. S. Todd & Co., 400 Hampton St., incorporated; B. S. Todd, J. C. Deaver.

Fla., Tavares—Lakewood Farms, Inc., capital \$250,000, incorporated; Paul C. Linder, Ruth Linder, O. L. Reeder.

Fla., West Palm Beach—C. W. Bingham, 209 S. Narcissus St., reported, acquired 70 acres in Palm Beach county.

Fla., West Palm Beach—John Waller & Co., incorporated; John W. Wideman, Jerome E. Wideman, 245 Valencia Road.

Ga., La Fayette—Eagle Mountain, Inc., chartered; Warren C. Merrill, Linwood E. Hanson, James T. Dean; develop Eagle mountain.

Ga., Savannah—Tremont Park Corp., capital \$50,000, incorporated; E. Robinson, 2106 Lincoln St.; William Marcus, De Renne Apt.

Ga., Savannah—Prospect Park Corp., capital \$70,000, incorporated; Alex Raskin, 310 W. Gwinnett St.; H. Kanter, 417 Broughton Ave.; Max Edelstein, of New York.

La., Monroe—Bernhardt Realty Co., capital \$400,000, incorporated; Pauline Rolfeigh, Sibil Bernhardt, Phillip Frederick.

La., New Orleans—Sierra Realty, Inc., chartered; Felice V. Sierra, 7805 Belfast St.; Jos. B. Garvey, 2516 Broadway; H. G. Hollander, 2801 Broadway.

La., New Orleans—Chetta-Finran Realty, Inc., chartered; John W. Chetta, 804 Poydras St.; Edw. J. Filleul, J. J. Fineran, 638 Freret St.

Md., Baltimore—Upper Ashburton Realty Co. acquired 40 acres on Cypress Creek; develop as addition to Manhattan Beach.

Md., Baltimore—Frank W. Miller, 3001 Greenmount Ave., acquired tract on Timonium Ave. near York Road.

Miss., Pass Christian—Allen Johnness, reported, acquired Pine Hills, Inc., hotel and subdivision of 2300 acres on Bay of St. Louis.

Mo., St. Louis—Charlot Realty Co., capital \$12,000, incorporated; J. Kohn, R. Kohn.

Mo., St. Louis—Ways and Means Committee, reported, develop park on 8th, Paul and Hickory Sts.

Mo., St. Louis—Traymore Homes Syndicate, C. H. Bayless, Pres., developing subdivision on 6 acre tract on LaDue and McKnight Rds.; construct entrance gates, build roads; central plant to furnish all modern conveniences; central garage, etc.

N. C., Asheville—Nicholas Realty Co., capital \$50,000, incorporated; J. W. Nichols, 210 Merriman Ave.; Lenore A. Gaskins, John B. Anderson, Watauga St.

N. C., Asheville—Jefferson Realty Co., capital \$50,000, incorporated; Haywood Powers, Charles G. Buck, New Medical Bldg.; W. D. Tennant, 98 College St.

N. C., Blowing Rock—Herman Cone, Irving Park, Greensboro, has plans for residence landscape by E. S. Draper, Landscape Archt. and Engr., Charlotte; construction of walls, drives, storm drainage, etc., by J. A. Gardner Construction Co., 211½ N. Tryon St., Charlotte.

N. C., Charlotte—Metropolitan Realty Co. incorporated; G. P. McNeely, 700 E. Boulevard, Sara Creed McNeely, C. K. Younce.

N. C., Charlotte—Charlotte School Committee, retained E. S. Draper, Landscape Archt. and Engr., Charlotte, for landscaping grounds of Fourth Ward Junior High School.

N. C., Charlotte—Myers Park Manor, capital \$300,000, incorporated; W. M. Cosby, S. C. Jackson, H. C. Dockery, Law Bldg.

N. C., Elizabeth City—Carolina Development Co., Virginia Dare Shores, Inc., and Shore Properties, Inc., as associated enterprise, reported, develop 31,000 acres on Northeastern Carolina coast, from Cape Hatteras to Currituck Sound, having frontage of 40 miles on Atlantic and 35 miles on Pamlico, Albemarle, Roanoke and Currituck sounds, for sea side resort; are building casino, bath house, 300 foot wharf on Kitty Hawk Bay; will cast concrete blocks for use and construct 15 bungalows; probably expenditure \$585,000; Frank Stick, and Allan R. Hueth, both Asbury Park, New

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Jersey, and Capt. Frank Winch, 1001 15th St. N. W., Washington, D. C., also interested.

N. C., Elizabethtown—National Land Exchange, Inc., will develop 200 acre subdivision; will clear, grade, install water and lights; build wood structure for summer homes; expend \$10,000. See Want Section—Machinery and Supplies. 5-20

N. C., Gastonia—R. O. Crawford & Co., Inc., 611 Third Natl. Bank Bldg., retained E. S. Draper, Landscape Archt. and Engr., Charlotte, to make survey and plan subdivision development of 26 acres in South Gastonia.

N. C., Highlands—Evans, Howell & Jones, Atlanta, Ga., acquired 500 acres, expend \$350,000 for development, including golf course, club house, etc.

N. C., Lenoir—Lenoir Improvement Co., capital \$100,000, incorporated; T. H. Broyhill, E. F. Allen, V. D. Guire.

N. C., Oxford—Reece Co., capital \$50,000, incorporated; C. R. Reece, Mary Day Reece, D. H. Royster.

N. C., Southern Pines—Montevideo, Inc., capital \$200,000, incorporated; Harry A. Lewis, J. J. Stroud, W. D. Shannon, Pine Bluff.

S. C., Calhoun Falls—Calhoun Falls Co., retained E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C., to prepare preliminary plans for industrial town site of 12,000 acres; plans include location of industrial sites for textile mills, brick plants, town center, tourist camps.

S. C., Rock Hill—Johnson Realty Co., Peoples National Bank, capital \$10,000, incorporated; Dr. J. B. Johnson, Walter L. Jenkins.

S. C., Spartanburg—W. S. Montgomery will improve grounds of Lake Summit residence; survey and plans by E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C.

S. C., Spartanburg—Hub City Nurseries, Inc., chartered; Landon M. Gentry, R. F. D. 3; Iren G. Gentry.

S. C., Spartanburg—Spartan Realty Co., capital \$10,000, incorporated; C. O. Hobbs, 169 Hampton Drive; S. W. Thorpe.

Tenn., Chattanooga—Lookout Realty Co., capital \$10,000, incorporated; Frank S. Darwin, James Bldg.; John K. Witherspoon, 1513 Chamberlain Ave.; Louis Hoffman.

Tenn., Knoxville—McLean, Rector & Scott, 713 Market St., reported, let contract to Warner Service Co., 102 W. Clinch Ave., for white way for sub-division; Murray Construction Co., Holston Natl. Bank Bldg., for first unit of paving; will construct ornamental arches.

Tenn., Leas Springs—Leas Springs Corp., 426 Holston Bank Bldg., R. L. Rutzler, Pres., Knoxville, has 1500 acres will develop 800 for suburban homes and summer resort, golf course, etc.; Chas. F. Lester, Landscape Archt., General Bldg., Knoxville. 6-2

Tex., Dallas—City, E. A. Wood, Engr., will develop White Rock Lake and adjoining property for park.

Tex., Dallas—Texas Realty Securities Co., incorporated; S. S. Baker, 6015 Worth St.; J. D. Harris, C. H. Britton.

Tex., Elgin—E. Johnson developing tourist camp.

Tex., Fort Worth—Brownfield Properties, Inc., chartered; C. F. Browning, B. C. Walkefield, C. F. Heman.

Tex., Houston—Southwest Settlement and Development Co., 914 Scanlan Bldg., will develop 500,000 acres for agriculture. 6-2

Tex., Houston—University Park Realty Co., H. B. Schlesinger, 408 Marine Bank Bldg., will develop 60 acre subdivision; install gas, sanitary sewers; water; curbs; expend \$60,000 for improvements; J. H. Rafferty, Constr. Engr., 406 Marine Bank Bldg. 6-2

Tex., Houston—The Pemberton Co., D. D. Summers, 408 Marine Bank Bldg., will develop 40 acre subdivision on West University Place; install paving, sewers, water, lights, gas, etc.; cost \$135,000; Lamar O. Cato, Archt., Bankers Mortgage Bldg.; Scott H. Shambaugh, 1401 Dowling St., G. L. Nystrom, Miller & Miller, Contrs., Guaranty Title Bldg.; J. H. Rafferty, Constr. Engr., W. University Place.

Tex., McAllen—R. S. Lazenby, 3012 Maple St., Dallas, reported, acquired 11-acre orchard; develop for grapes and other fruits.

Tex., Odessa—Wink Townsite Co., capital \$10,000, incorporated; John T. Cross, E. G. Langley, L. E. Chandler.

Tex., San Antonio—Bayside Beach Development Co., 301 Texas Theater Bldg., Jimmie Hodges, Gen. Mgr., will develop playground resort.

Tex., San Antonio—Commerce Company, capital \$50,000, incorporated; William Elder, 815 Brooklyn St.; Leroy G. Denman, 109 W. French St.; Gilbert M. Denman, 215 W. Commerce St.

Va., Norfolk—Trituit-Smith Realty Corp., capital \$15,000, incorporated; Irving E. Trituit, Herbert E. Smith, Colonial Hall Apt.; Henry C. Nolley, Law Bldg.

Va., Norfolk—Hopewell Co., capital \$15,000, incorporated; Paul T. Collins, 502 Fairfax Ave.; A. W. Cornick, Dickson Bldg.; S. Q. Collins, Jr., Warwick Apt.

Va., Norfolk—R. W. Pentross, City Atty., advises contract between city and Otto Wells, for exchange of land at Ocean View, contemplates city development of 18-hole golf course, landscaping of 1200 ft. ocean front, connecting with Ocean Shore Drive; proposed later to build stadium and to develop entire territory for park and playground purposes; probably install drainage, sewer and water.

Va., Richmond—Fleming Real Estate Co., capital \$25,000, incorporated; Carl Fleming, 718 E. Franklin St.; Peyton Fleming, 1516 Park Ave.; Rives Fleming, 3009 Hawthorne Ave.

W. Va., Huntington—Park Board, reported, authorized construction of terraced rock garden in Ritter Park; Fred T. Handloser, Landscape Archt., 2998 Norway Ave.

W. Va., Martinsburg—W. S. Snyder, reported, acquired interest in Shenandoah Apple Orchard Co., 245 acres.

Lumber Enterprises

Fla., Jacksonville—James D. Lacey Co., incorporated; James D. Lacey, W. T. Culver, S. J. Hall.

Ga., Hapeville—Evans-Inman Lumber Co., G. H. Evans, Pres., advises: "Let contract to Pittman Construction Co., Rhodes Bldg., Atlanta, to rebuild burped mill, concrete construction; contract for sawmill machinery let to Wheland Co., Chattanooga, Tenn.; plant to be in operation in 40 to 60 days. 6-2

La., Clarks—Central Louisiana Lumber Co., reported, rebuild double band mill, install new machinery. (See Want Section—Band Mill).

N. C., Fayetteville—Beech Island Lumber Co., capital \$50,000, incorporated; J. Bayard Clark, M. T. Blassingham, 27th and Hampton Blvd.; J. Edward Cole, Royster Bldg., both Norfolk.

Tex., Dallas—Southwest Lumber Co., Inc., capital \$10,000, chartered; Charles L. Thomas, 211½ S. Beckley St.; Carl J. Thomas, W. L. Thornton, Mercantile Bank Bldg.

Va., Martinsville—Lester Lumber Co., increased capital \$50,000 to \$500,000.

Va., Roanoke—H. & M. Flooring Lumber Co., capital \$25,000, incorporated; S. W. Hunter, Lorraine Apts.; F. F. McCollum, Montvale Rd.; Geo. R. Cheves, Pulaski.

W. Va., Elkin—Pardee-Curtin Lumber Co., reported, develop 40,000 acres timber land in Webster County; will establish mill.

Metal-Working Plants

La., Monroe—Monroe Roofing & Sheet Metal Works, Inc., capital \$10,000, chartered; T. F. Terzia, 2700 Lovers Lane, P. P. Matthews, 2003 N. Third St., F. A. Terzia, Jr.

Mo., St. Louis—Superior Enamel Product Co., 6200 St. Louis Ave., reported, will erect first unit of \$250,000 plant; factory 300 ft. long 180 ft. wide, with office building 80x30 ft.; 1-story; brick and steel with slow combustion wood roof; steel sash and monitors; equip with electrically heated enameling furnace with hearth areas of 45 sq. ft. each; install complete system of conveyors; William H. and Nelson Cunliff Co., Contrs.; plant designed by Manske & Bartling, both 410 N. Euclid St.

Tex., San Benito—Valley Plumbing Sheet Metal Co., incorporated; H. S. Collins, F. G. Collins, E. W. McAllister.

Mining

Fla., Miami—Baas Rock Co., Inc., chartered; C. F. Turner, M. E. Turner.

La., Kentwood—Greenlaw Gravel Co., Inc., capital \$20,000, chartered; Ashleigh Harleston, Thos. G. Womack, Lord Harleston.

Miscellaneous Construction

Ala., Mobile—Wm. L. Sibert, Chmn. State Docks Comsn., let following contract for coal, handling plant: Robins Conveying Belt Co., 15 Park Row, New York, for conveying belt

system and movable loading and stocking tower; Mead-Morrison Manufacturing Co., 149 Broadway, New York City and 125 Prescott St., Boston, Mass., for unloading tower and unloading and reclaiming tower; Link Belt Co., 233 Broadway, New York, car dumper; bids for pier No. 3 will be opened June 30. 4-21

Ark., Osceola—Cmmrs. Drainage District No. 17, reported, soon let contract to repair 5 breaks in Big Lake Levee; cost \$20,000.

Ala., Selma—Wharf—City officials and Chamber of Commerce, H. H. Frasier, Sec., plans constructing wharf on Alabama River. See Want Section—Machinery and Supplies.

Ark., Little Rock—Maj. John Lee, Dist. Engr., Third Mississippi River Comsn., reported, having surveys made for protection levee South Bend on Arkansas River.

Fla., Flagler Beach—City receives bids in about 60 days for municipal pier at Flagler Beach, creosoted timber and pile construction, U-shaped two 24-ft. approaches and platform; Welr & Benson, Constr. Engr., 120 Volusia St., Daytona Beach.

Fla., Hollywood—Pier—C. C. Freeman, City Mgr., advises: "Are not building a pleasure pier and do not anticipate building one in near future." 5-19

Fla., Miami—City Comsn. receives bids June 13 for dredging turning basin. See Want Section—Bids Asked.

Fla., Miami—City, reported, receiving bids June 13 for first unit of turning basin; estimated cost \$500,000; dredge to depth of 25 ft.

Fla., Tampa—Seawall—R. D. Martin, City Engr., reported, will extend seawall; expend \$144,375.

Ga., Savannah—John H. Monroe, 121 E. Oglethorpe Ave., applied to U. S. Engrs. for permit to construct 4 jetties in Forest River at Coffee Bluff, two 30-ft. long, built to low water, and two 40-ft. long, to 10-ft. channelward of low water; built of 2 rows of piling 5 ft. apart, connected by wood framework.

Ga., Tunnell Hill—Nashville, Chattanooga and St. Louis Railroad, H. McDonald, Nashville, Tenn., Ch. Engr., reported, construct tunnel.

Ky., Ashland—Swimming Pool—South Side Park Co., Inc., Sam C. Southern, Gen. Mgr., reported, interested in erection of swimming pool.

La., Algiers—Levee Board, Peter Muntz, Sec., New Orleans, reported, construct 1½-mi. levee.

Miss., Gulfport—C. F. Lytle Co. has contract for filling and constructing seawall on section near Veterans Hospital.

Miss., Pascagoula—Seawalls, etc.—Jackson County Road Protection Comn., F. H. Lewis, Chmn., received revised plans for beach boulevard and seawalls; will build 2 mi. seawall on Pascagoula front and 1½ mi. at Ocean Springs; voted \$600,000 bonds; F. H. McGowen, Engr.; soon let contract. 5-12

Mo., St. Louis—Board of Public Service receives bids June 14 for constructing hurdle dike. See Want Section—Bids Asked.

N. C., Greensboro—City, E. G. Sherrill, Clk., plans issuing \$16,000 incinerator bonds. See Financial News—Bond Issues Proposed.

Okla., Bristow—City, Malcolm Morrison, Mayor, reported, to construct swimming pool; 100x200 ft.; cost \$10,000.

Tex., Beaumont—Wharf and Dock Comn., reported, acquired site for waterfront improvements; construct harbor, wharves and warehouses.

Tex., Corpus Christi—Charles Clarke & Co., Guaranty Bldg., Galveston, will repair jetties on ship channel.

Tex., Galveston—Galveston Wharf Co., E. E. Gossrau, Gen. Mgr., advises: "Will erect slips at Piers 19 and 20; construction by company's forces."

Tex., Port Arthur—Revetment—City voted \$50,000 canal revetment and levee bonds, will soon call for bids for construction; J. P. Logan, Mayor. 5-5

Tex., San Benito—Agar & Gentry, has contract for sewers, incinerators and abattoir; Garrett Engineering Co., Box 1512, Houston, Engrs. 4-14

Va., Richmond—Finance Committee of City Council, reported, approved \$110,000 appropriation for city wharf and dock; \$65,000 for incinerator.

West Virginia—Virginia Ry., A. M. Trougott, Ch. Engr., Norfolk, Va., reported let contract to W. W. Boxley & Co., Boxley Bldg., Roanoke, Va., for concrete lining of about 1071 ft. at Polk Gap tunnel; cost \$75,000.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Miscellaneous Enterprises

Ala., Birmingham—First National Bank offering \$900,000 first mortgage serial gold bonds, series A 6% of Birmingham News Co.; company controls publication of The Birmingham News, The Montgomery Advertiser and Birmingham Age-Herald; proceeds to be used in part payment for capital stock of Age-Herald Publishing Co. and for purchase of additional machinery and equipment for use in publication of Birmingham Age-Herald at Birmingham News plant.

Ala., Birmingham—Victor H. Hanson, Publisher of Birmingham News, reported, acquired Birmingham Age-Herald; will combine under one management.

Ala., Mobile—C. L. Hutchisson, N. H. Holmes and C. L. Hutchisson, Jr., State Office Bldg., formed partnership; practice architecture and engineering under name of Hutchisson, Holmes & Hutchisson, Archts.

D. C., Washington—Moore Printing, Inc., capital \$10,200, incorporated; W. C. Benson, Mills Bldg., Oliver J. Moore, George S. Carll, 3020 45th St. N. W.

Fla., Brooksville—A. & M. Frigid Electric Co., capital \$25,000, incorporated; Wm. J. Anderson, Leon G. Moyer.

Fla., DeLand—Drugs—W. A. Allen and Co., incorporated; Charles L. Allen, H. T. Allen.

Fla., Fort Myers—Merchandise—H. A. Robbins & Co., incorporated; H. A. Robbins, T. P. Bartleson, Kattie L. Robbins.

Fla., Ft. Myers—Stewart-Abbott Electric Co., capital \$10,000, incorporated; J. R. Stewart, M. L. Holland.

Fla., Jacksonville—Duval Amusement, Inc., incorporated; Marion Talley, E. J. Sparks, 317 W. Forsyth St.

Fla., Jacksonville—Pinellas Theatres, Inc., chartered; E. J. Sparks, Marion C. Talley.

Fla., Jacksonville—Arthur F. Perry, Jr., has contract for bottling plant at 2404 Market St., cost \$15,000, for Mavis Chocolate Co.

Fla., Kissimmee—Merchandise—C. W. Parsons Co., Inc., incorporated; G. W. Parsons, E. V. Cochran.

Fla., Live Oak—Wellworth Five Cents to One Dollar Store, Inc., chartered; Samuel I. Gibbs, G. G. Williams.

Fla., Monticello—Hans Sorrensen will erect cow barn on Sheffield Road.

Fla., Ocala—Southland Retail Stores, Inc., capital \$25,000, incorporated; J. I. Wrayton, H. Nichol, C. Jensen.

Fla., Orlando—Central Florida Amusement Co., incorporated; H. Clay Crawford, Jr., S. S. Spencer.

Fla., Orlando—Consolidated Oil Exchange, Inc., incorporated; A. M. McGehee, S. H. Stevens.

Fla., Orlando—Cox & Bryson Paving Co., Smith Bldg., increased capital, \$50,000 to \$100,000.

Fla., Tampa—Multi-Color Film Co., Inc., capital \$300,000, incorporated; Jno. Mordica, J. W. Lee.

Fla., Tampa—Florida Catering Service, Inc., capital \$10,000, incorporated; Bert Darlison, Dennis L. Donovan.

Fla., Tampa—Merchandise—M. R. Store, Inc., chartered; M. G. Rosenberg, Marie Rosenberg.

Fla., West Palm Beach—Delux Cleaners and Laundry, Inc., 214 Lakeview Ave., incorporated; Fred W. Twombly, Russell C. Love, El Brillo Way.

Ga., Brunswick—Alonso Cigar Co., capital \$10,000, incorporated; M. Alonso, R. Alonso, Florence Alonso.

Ga., Columbus—Muscogee Hatchery, reported, let contract to Buckeye Incubator Co., Springfield, Ohio, for additional incubators; increasing capacity to 37,000.

Ga., Cordele—Confection—Pond Brothers Peanut Co., N. & S. R. R., Suffolk, Va., reported, will erect 4-story shelling plant and warehouse.

Ga., East Point—Cudahy Packing Co., 111 W. Monroe St., Chicago, Ill., advises: "Acquired plant of Blount Carriage and Wagon Works, but remodeling of it for shortening plant has been postponed until early next year."

Ga., La Fayette—Walker County Fair Assn., incorporated; W. O. Davenport, J. A. Allen, J. W. Massey.

Ga., Tallapoosa—Huggins and Lovelady, reported, erect mattress factory.

Ga., Valdosta—John Sineath, Undertaker, Inc., capital \$50,000, chartered; John Sineath, C. C. Gideons, A. B. Smith.

Ga., Waycross—John W. Greer, Douglas, reported, plans acquiring Waycross Packing Plant.

Ky., Greensburg—Green County Fair Association increased capital \$3,500 to \$10,000.

Ky., Lexington—General District Warehousing Co. increased capital \$1,645,110 to \$2,320,137.

Ky., Mayfield—Merit-Clothing Co. increased capital \$500,000 to \$700,000.

Ky., Owensboro—Frank Brannon and Robert D. Head, reported, acquired Chero Cola Bottling Co.; will operate under Nehi Bottling Co.

La., Bogalusa—Sutton Swimming Pool, Inc. chartered; T. H. Sutton, Mrs. T. H. Sutton.

La., Kentwood—Kent Dairy Products Corp., Inc., capital \$50,000, chartered; Chas. A. Kent, Thos. P. Hogan, Chas. A. Kent, Jr.

La., Luling—Euclide Chemical Co. of Missouri, reported, secured option on 200 acres of land for factory site; erection to begin about Jan. 1; will include harbor facilities, switch track connection; also secure standing timber which will be utilized in manufacturing process; company manufactures newspaper paper; expansion planned for perfecting of processes for paper pulp; John H. Morris, Hiberia Bldg., reported, interested.

La., New Orleans—New Orleans Hat Works, Inc., chartered; Joseph Muntz, 4212 S. Derbigny St.; John Kotas, 1321 6th St.; Walter Melan, 1820 N. Claiborne St.

La., New Orleans—Ivory Garter Co., Inc., capital \$25,000, chartered; W. Horace Williams, George W. Westfeldt, Roland A. Thomas, all at 833 Howard Ave.

La., New Orleans—Engineering Sales Co., Inc., 425 S. Peters St., are designing a power plant and factory to be located here; cost about \$200,000.

La., New Orleans—Arch Construction Co., Inc., Masonic Temple, capital \$60,000, chartered; Eugene C. Gravely, 705 United Fruit Bldg.; Henry E. White, 537 S. Scott St.; Robert L. Gravely, Orlando, Fla.

La., New Orleans—Mitchell Patented Auto Wheel Co., Inc., capital \$20,000, chartered; Donald H. Mitchell, 2734 Palmer Ave.; John Ketzal, J. C. Miller, both 837 Perdido St.

La., Roseland—Roseland Box Co., Inc., capital \$250,000, incorporated; A. McCraney, Thomas D. Dyer, Wade J. Garnier.

Md., Baltimore—Buttons, Buckles, etc.—Alma Manufacturing Co., 611 S. Monroe St., increased capital 10,000 shares, no par value to 6000 shares, no par value.

Md., Baltimore—Maryland Chemical Co., Inc., Russell and Haines Sts., increased capital 250 shares, par value \$100, to 1,500 shares par value \$100.

Md., Baltimore—Marsh Corp., Garrett Bldg., changed name from Marsh Elevator Co., increased capital 120 shares par value \$100, to 250 shares, par value \$100.

Md., Baltimore—Home Heating Corp., Keyser Bldg., incorporated; George J. Muller, 3414 Alto Ave., George L. Slight, Calvert and Redwood Sts., Fred R. Williams, Sun Life Bldg.

Md., Baltimore—Musical Enterprises—Haebler-Anderson-Haebler, Inc., 752 N. Gay St., chartered; Louis T. Haebler, B. Lee Anderson, Anthony J. Haebler, Jr.

Md., Baltimore—United Waste Material Co., Inc., 2454 Callow Ave., chartered; Louis Fainberg, Jacob Brenner, 2211 Brookfield Ave., Fred C. Butt.

Md., Baltimore—New Howard Hotel, Inc., chartered; Simon Levinson, Munsey Bldg., Armand Levinson, Archibald Sykes, Citizens Natl. Bank Bldg.

Md., Baltimore—Merchandise—Home Supply Co., American Bldg., incorporated; Elijah G. Carey, 2923 Walbrook Ave., Paul Boyd Mules.

Md., Baltimore—Consolidated Coat Makers, Inc., North and Harford Aves., will occupy building to be erected at Curtain Ave., Robb and Alsquith Sts. by John H. Ferguson; J. L. Robinson Construction Co., Contr., 1130 W. Lafayette Ave.; sub-contracts will be let in about 2 weeks; 4 stories; cost \$180,000; Herman F. Doelman, Engr., 516 N. Charles St. 5-12

Md., Cumberland—Jesse M. Neff will erect brick and tile factory on Frederick St.; 40x60 ft.

Md., Frederick—Frederick County Products, Inc., capital \$150,000, chartered; D. T. Dutrow, Chas. Wertheimer, M. E. Hedges; reported, acquired control of Frederick County Products, meat packers; will improve plant; install new machinery; erect addition to ice plant.

Md., Salisbury—Clover Ice Cream Co., incorporated; John K. Wetter, Mark Cooper, E. Homer White.

Miss., Greenwood City—City Engr. has plans for erecting abattoir on 2 acres of land N. of River; install refrigerating room.

Miss., Hattiesburg—Phoenix Laundry, 200 Main St., reported, erect \$14,000 brick laundry.

Miss., Natchez—Feltus Brothers Hardware Co., capital \$50,000, incorporated; A. M. Feltus, Linden St.; W. J. Feltus, Jr., Somerset St.; Richard C. Feltus.

Miss., Picayune—Commercial Steam Bakery, J. L. Saxon, Mgr., enlarging bakery.

Miss., Quitman—See Ice and Cold Storage Plant.

Miss., Water Valley—J. L. Harris, reported, negotiating with outside capitalist to establish condensed milk plant.

Mo., Kansas City—Wight and Wight, Archts., First Natl. Bank Bldg., prepared drawings for Maj. Murray Davis Memorial in Murray Davis Square; Judge H. F. McElroy, City Mgr. will recommend appropriation of \$10,000.

Mo., Kansas City—Kamphene Co., leased building 408 Delaware St.; established plant to manufacture salve.

Mo., Moberly—Brown Shoe Co., reported, will erect addition to plant.

Mo., Springfield—Dry Milk Corp., 13 Park Row, New York, reported, established plant; John F. Potts, Joplin, investment company representative.

Mo., St. Louis—Auto Dimmer Light Co., capital \$25,000, incorporated; C. W. Rue, O. J. Gutfreund, 3811 Lafayette St., J. W. Keniston, 1623 S. 39th St.

Mo., St. Louis—Liebermann Bros. Drayage Co., 105 S. Third St., capital \$25,000, incorporated; L. J. Liebermann, A. J. Liebermann.

Mo., St. Louis—Elk Bottling Co., 1418 N. Garrison St., incorporated; B. & H. Schucart.

Mo., St. Louis—Standard Power Equipment Corp., 5473 Delmar Blvd., capital \$25,000, incorporated; F. H. Schulbert, E. W. Baseler.

Mo., St. Louis—H. Pauk & Sons Mfg. Co., 1321 N. 15th St., increased capital \$50,000 to \$400,000.

Mo., St. Louis—More-Jones Brass and Metal Co., Kingshighway and Manchester Ave., John B. Strach, Pres., reported, will be merged with 8 other corporations; company manufactures car journal bearings and other brass products; W. A. Harriman & Co., 26 Broadway, New York, reported interested. W. A. Harriman & Co. wires: "Negotiations for merger of brass and bronze companies not yet complete."

Mo., St. Louis—Interstate Printing Co., 3935 Laclede Ave., Otto H. Stamm, Pres., reported, erect addition to plant; fireproof; 40,000 sq. ft. floor space; double present capacity.

N. C., Aberdeen—Aberdeen Warehouse Corp., capital \$75,000, incorporated; G. C. Seymour, W. A. Blue, J. Talbot Johnson.

N. C., Asheville—Hanes & Hamrich, Inc., capital \$50,000, incorporated; S. M. Hanes, B. E. Hamrich, Virginia W. Hanes.

N. C., Asheville—Asheville Catering Co., Inc., capital \$25,000, 7 N. W. Zack Square, incorporated; J. B. Rector, W. M. Harlingen, Clarence King.

N. C., Charlotte—Southern Orangeade Co., capital \$10,000, incorporated; John L. Elliott, Horace Wiltbank, Enos T. Edwards, Wilder Bldg.

N. C., Durham—Pigeon River Tunnel Co., incorporated; E. C. Brooks, Jr., R. P. Read, 510 Holloway St.; Jones Fuller, 412 E. Main St.

N. C., Durham—Glove Jewelry Co., capital \$50,000, incorporated; L. Stadlem, 319 Liberty St.; J. E. Weaver, M. Haskell, 307 Markham St.

N. C., Greensboro—Gate City Roofing Co., Railroad St., capital \$10,000, incorporated; R. W. Stanley, Glenwood, N. C.; J. H. Griffin 505 N. Edgeworth St.; J. S. Tussey, 1814 Vance St.

N. C., Greensboro—Plumbing—Crutchfield-Sullivan Co., 311 S. Green St., capital \$100,000, incorporated; J. M. Crutchfield, R. P. Crutchfield, W. H. Sullivan.

N. C., Hendersonville—Meat—Karp's Inc., capital \$25,000, incorporated; Annie Lee Karp, A. Karp, J. V. Bowers, Main St.

N. C., High Point—Knox Upholstery Co. English St., will erect 4-story factory at Westly St. and English St.; cost \$15,000.

N. C., Highwater—Warren-Giles Co., capital \$30,000, incorporated; W. H. Warren, J. L. Warren, J. F. Giles, Branch.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

N. C., Oxford—Oxford Farmers Warehouse Co., capital \$50,000, incorporated; D. F. Currin, T. B. Williams, E. M. Currin, of Angier.

N. C., Smithfield—Glass-Staples Tobacco Co., capital \$250,000, incorporated; W. G. Glass, G. S. Staples, Richard J. Reynolds, Winston-Salem.

N. C., Wendell—Wendell Community Fair Association, Inc., capital \$10,000, chartered; Waymond Morgan, Sidney Morgan, Gungan Perry.

N. C., Winston-Salem—R. J. Reynolds Tobacco Co., reported, erect 6-story building, 5th St.; steel windows, wire glass, sprinkler system; 2 concrete stair towers, steam heat; 209x151 ft.; 196,182 sq. ft. floor space; cost \$305,000. 6-2

N. C., Winston-Salem—Pilot Building Co., capital \$50,000, incorporated; B. P. Holland, 160 Lakeland Ave.; Jane E. Holland, Edward F. Butler.

N. C., Winston-Salem—Winston-Salem Shopping News, capital \$50,000, incorporated; W. N. Dixon, 900 Linwood Ave.; B. M. Hitchcock, Ardmore St.; A. H. Hilker, 1810 S. Main St.

Okla., El Reno—Elvira Hand and Signal Co., incorporated; George M. White, Wm. Dunn, Okarche; Jas. R. Santin, Yukon.

S. C., Abbeville—R. E. Cox, reported, leased portion of Rosenberg Bldg. for shirt factory; Hugh Griffith, Eatonton, Ga., is installing machinery; output 75 doz. shirts. 6-2

S. C., Bennettsville—Marlboro County Steam Laundry, capital \$12,000, incorporated; O. E. Eckardt, T. C. Kanoy, E. W. C. Cline.

S. C., Charleston—Planters Nut and Chocolate Co., 212 Johnson Ave., Suffolk, reported, acquired peanut shelling factory, operated by Suffolk Peanut Co., 269 S. Saratoga St.; plan erecting addition, warehouse, install equipment.

S. C., Columbia—Columbia Construction Co., incorporated; J. N. Lee, 1419 Woodrow St.; J. P. Macken, W. Anderson Clarkson, 1233 Washington St.

S. C., Columbia—Hugh T. Seibels, Inc., incorporated; Hugh T. Seibels, Columbia Nat. Bank Bldg.; Thomas W. Waters, 1531 Pendleton St.

S. C., Greenville—Cotton—D. E. McCuen & Co., capital \$225,000, incorporated; D. E. McCuen, Augusta Rd.; W. H. McCuen, E. M. McCuen.

S. C., Greenville—Greenville Mattress Co., capital \$12,000, incorporated; Jo. C. Elstner, J. F. Stansell, W. M. Saxon, 224 W. Coffee St.

S. C., Spartanburg—Stone-Tile Mfg. Co., 272 E. Henry St., D. C. Todd, Box 425, will erect building; daily output 2000 to 5000; install equipment for manufacture of stone-tile, National Stone Corp., San Francisco, Cal., machinery contractors.

S. C., Spartanburg—Frigidaire Sales and Service, Inc., incorporated; George Dearman, John A. Wood.

Tenn., Knoxville—Gray Eagle Marble Co., Riverside Drive, will erect mill addition; 56 ft. by 96 ft.; V. L. Nicholson, Contr., 102 W. Clinch St.

Tenn., Knoxville—Charles R. Roberts, 2042 Magnolia Ave., will erect baking plant; Manley, Young & Meyer, Archts., 302 W. Church St.

Tenn., Knoxville—Knoxville Marble Co., capital \$525,000, incorporated; Walter V. Clark, Benjamin P. Broome, O. T. Roehl, 215 N. Broadway.

Tenn., Memphis—Draughon's Business College, capital \$10,000, incorporated; O. R. Mason, 1889 Nelson St., W. Percy McDonald, Bank of Commerce Bldg., J. W. Mason, 606 Chelsea St.

Tenn., Memphis—Cotton—F. M. Crump & Co. increased capital, \$100,000 to \$1,000,000.

Tenn., Nashville—Merchandise—Stephens-Huffines Manufacturing Co., 314 First Ave., increased capital \$25,000 to \$75,000.

Tenn., Rockwood—City Comm. let contract to American-La France Fire Engine Co., Elmira, N. Y., for fire engine; cost \$12,500.

Texas—Delaware Punch Co., San Marcos St., San Antonio, reported, plans erecting 25 bottling plants in various parts of country.

Tex., Abilene—West Texas Mineral Lands Co. incorporated; E. H. Porter, Martha Porter Hines, W. W. Hines.

Tex., Amarillo—C. E. Ashford Co., Oliver-Eagle Bldg., reported, has contract for ranch for Amarillo Silver Fox Ranch Co.; construct

semi circle driveway; concrete walkways; water fountain; keepers residence of stucco; arched entrance gate; reception rooms; 62x100 ft. stucco tea room of California type; install modern breeding equipment; pens, 15x40 ft., 10 ft. high; erect cook house, etc.; cost about \$27,500.

Tex., Austin—Southern Baking Co., 1512 Lavaca St., reported, let contract to C. H. Tounge, 1607 W. Ninth St., for addition on W. 15th St.; 1-story, brick, semi-fireproof; install ovens and baking equipment; cost \$100,000.

Tex., Beaumont—Oriental Amusement Co., capital \$12,000, incorporated; John Freeman, 1455 Ash St.; L. M. Hopkins, Sidney Boudreaux, 607 Plum St.

Tex., Brownwood—Brownwood Elevators, Inc., capital \$25,000, incorporated; Henry Stallings, W. P. Logan, A. A. Horne.

Tex., Brownsville—Hicks Rubber Co., Inc., increased capital, \$15,000 to \$30,000.

Tex., Carrizo Springs—Dimmit County Guaranty Title Co., capital \$25,000, incorporated; A. P. Johnson, Barbara G. Johnson, B. L. Jeffrey.

Tex., Corpus Christi—South Texas Seed Co., Inc., incorporated; Wm. Gerhardt, Mussett and Black Sts.; John B. Hardwicke, 1230 Third St.; A. F. Hardwicke.

Tex., Dallas—Z. E. Marvin, Rowan Bldg., J. D. Holt, 1531 Kingshighway, incorporated company with \$100,000; operate drug stores.

Tex., Dallas—Dallas Music Co., incorporated; John L. Leyhe, 907 Elm St., W. B. Leyhe, 4414 Cedar Springs St., M. S. Mills.

Tex., Dallas—Bryon Jackson Pump Manufacturing Co. of Texas incorporated; John B. Keating, E. L. Osborn, R. Schurman.

Tex., Dallas—Gas Protective Co. incorporated; R. A. Morriss, N. R. McElroy, L. B. Martin.

Tex., Dallas—Marvin Drug Co., capital \$100,000, incorporated; Z. E. Marvin, Rowan Bldg.; W. E. Hill, T. W. Hawkins, 512 Center St.

Tex., Dallas—New York Hat Manufacturing Co., capital \$15,000, incorporated; Louis Lehman, May Byer, 4707 Lindsley St.; Louis Green.

Tex., Edinburg—Savage Wholesale Grocery Co., capital \$30,000, incorporated; J. W. Savage, F. E. Hess, W. H. Rankin.

Tex., El Paso—El Continental Publishing Co., Inc., changed name from El Paso Times Publishing Co.; increased capital, \$1000 to \$75,000.

Tex., Fort Worth—Texas-Louisiana Patents Co., incorporated; J. H. Oppenheim, 3212 St. John's Drive, Lynn B. Milam, Magnolia Bldg., Both Dallas.

Tex., Fort Worth—Van Zandt Refrigerating Machine Co., capital \$60,000, incorporated; John H. Van Zandt, L. B. Van Zandt, I. L. Van Zandt, Jr., 638 S. Henderson St.

Tex., Goose Creek—Tri-City Publishing Co. incorporated; C. R. Myers, J. W. Hixson, James P. Wickershimer.

Tex., Harlingen—Hygeia Milk Products, Inc., Dr. J. T. Traylor, Pres., has pasteurized milk and products plant; daily output 300 gallons; will install pasteurizers, etc.; Ben E. Cabell, Dallas, Tex., Republic Bank Bldg., machinery contractor.

Tex., Houston—W. A. Dowdy, City Archt., has plans for laundry at City-County tuberculosis hospital.

Tex., Houston—Warehouse Sales Co., capital \$10,000, incorporated; H. E. Tomlinson, 2022 W. Main St.; F. R. Breaux, Second Nat. Bank Bldg.; A. J. Delange, 5301 Jackson St.

Tex., Houston—Efficiency Pump and Compressor Co., capital \$20,000, incorporated; J. E. Smith, J. E. Wilson, F. H. Lawson.

Tex., Houston—May Nut Cracker Co. incorporated; R. F. Brand, 3011 Houston St.; Earl L. Hill, National Bank Bldg.; Zillah Langley.

Tex., Houston—East End Home Builders, Inc., incorporated; F. W. Brown, 918 Milam St.; J. K. Stirtion, 1009 Welch Ave.; George H. Hedrick, 4612 Walker St.

Tex., Houston—Blue Bird Creamery Co., capital \$10,000, incorporated; Lee B. Cox, 109 Drennan St.; W. E. Davis, W. A. Davis.

Tex., Houston—Jacobs Sale Co. incorporated; Harry G. Jacobs, Frank B. McCurdy, 1116 Prairie Ave.; J. K. Warren, 4815 Fannin St.

Tex., Joaquin—Joaquin Grocery Co., Inc., increased capital, \$20,000 to \$40,000.

Tex., Kyle—A. C. Feltner, San Marcos, reported, acquired bottling works.

Tex., McCamey—Construction—Henry & Holland, capital \$30,000, incorporated; G. W. Henry, T. G. Holland, O. B. Orr.

Tex., Mineral Wells—Cotton Production Corp., capital \$30,000, incorporated; Jodie P. Harris, R. O. LeNeve, Jack Harris.

Tex., Nocona—Nocona Leather Goods Co., reported, will erect 1-story brick factory.

Tex., Quanah—Cates City Creamery Co., Jno. R. Cates, reported, erect creamery building.

Tex., San Angelo—Men's Store, Inc., capital \$50,000, chartered; L. L. Griffin, E. B. Kimberlin, Kemper Kimberlin.

Tex., San Antonio—Sid Katz, 122 E. Gramercy St., erect 1-story, reinforced concrete frame, brick and hollow tile paint shop, 54x150 ft.; Morris & Noonan, Builders Exchange Bldg., Archts. and Engrs.; cost \$13,000.

Tex., San Antonio—Acme Wire and Iron Works, 1601 N. Laredo St., reported, erect 1-story building; 65x125 ft.

Tex., San Antonio—Merchandise—Cohen-Freeman Corp., capital \$20,000, incorporated; William Cohen, Herbert Freeman, James B. Bernheim, Evergreen Apts.

Tex., San Antonio—Sherrys, Inc., Travis St., reported, planning installing ice cream factory.

Tex., San Antonio—Parkmoor Drug Store, 1909 Fredericksburg Rd., increased capital \$10,000 to \$25,000.

Tex., San Benito—See Miscellaneous Construction.

Tex., Sherman—Sherman Theater Co., Inc., capital \$45,000, incorporated; H. B. Robb, W. G. Underwood, H. C. Houston.

Tex., Sweetwater—John M. Easley, Box 398, has large deposit of gypsum and gypsum in Fisher County convenient to railroad and power lines and wants all information possible on process of manufacturing gypsum wall board and allied products, with view to organizing company to operate mill.

Tex., Texarkana—Laundry—Gore & Sander, Inc., chartered; J. D. Gore, Lee Sander, Barney Smith.

Tex., Waco—Royal Confectionery Co., capital \$20,000, incorporated; J. P. McPherson, 908 N. 21st St.; W. L. Bacon, 1103 N. 18th St.; M. E. Lawrence, 2505 Colcord Ave.

Tex., Wichita Falls—De Luxe Softener Co., incorporated; C. P. Burton, Harvey-Snyder Bldg.; S. C. Snider.

Tex., Wichita Falls—James Brothers Creamery Co., 110 Chester St., erect creamery building; cost \$15,000.

Tex., Wichita Falls—Texas Electric Service Co., 904 Scott St., reported, erect warehouse; cost \$30,000.

Tex., Wichita Falls—James Bros. Creamery Co., 110 Chester St., reported, let contract to R. S. Smith, 2410 Grant St., for \$25,000 creamery.

Va., Alexandria—Herfurth Engine and Machinery Corp., capital \$50,000, incorporated; Randolph Herfurth, Sallie M. Herfurth, Hugo Herfurth.

Va., Alexandria—Good Humor Ice Cream Co. of Washington, capital \$80,000, incorporated; Harry W. Brimer, 1006 E. Capitol St.; George L. Brimer, Atlas Bldg., both Washington, D. C.; James Sherler, Rosslyn.

Va., Lancaster—Northern Neck Construction Corp., capital \$25,000, incorporated; M. I. Davenport, John S. Davenport, 3433 Guilford Ave., Baltimore, Md.; C. M. Davis, Merry Pt., Va.

Va., Lynchburg—Allen-Jennings Advertising, Inc., incorporated; Edward A. Allen, Rutherford St.; Claude Jennings.

Va., Norfolk—Ritz Hosiery Shop, Inc., capital \$25,000, incorporated; Jonas Levinson, 70 Graydon Park; A. Goldman, 619 Church St.; M. Goldman.

Va., Norfolk—Compeco Dye Works capital \$50,000, incorporated; Charles Cygi, J. H. Powers, Ingleside; E. A. Billsoly, Law Bldg.

Va., Rosslyn—Colonial Mortgage and Investment Corp., capital \$300,000, incorporated; Alan B. Proclise, Braddock Heights, Lynchburg; John E. Fowler, Rosslyn; Chas. T. Merchant, Ballston.

Va., Salem—Norris Coal and Transfer Co., capital \$50,000, incorporated; E. R. Goodwin, C. E. Goodwin, Ruth E. Goodwin.

W. Va., Clarksburg—Adamston Flat Glass Co., W. M. B. Sine, Gen. Mgr., advises: "Building additional tank unit which will be equipped with machines for manufacturing flat drawn sheet glass; engineering has been done in our own office and construction will be carried on by our own men;

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investment about \$200,000; material has been bought."

Motor Bus Lines and Terminals

Fla., West Palm Beach—Florida Cities Bus Co., Max Wyner, Pres., P. O. Building, will establish bus line, Lake Worth through Palm Beach to Riviera, via Green Acres.

Ga., Savannah—Five Transportation Co., Brunswick, C. O. Fiveash and A. E. Fiveash; establish bus line between Brunswick and Savannah.

Ga., Waycross—Lewis L. Harvard, Inc., capital \$10,000, chartered; Gertrude G. Harvard, Lewis L. Harvard.

La., Baton Rouge—Champagne Service, Inc., capital \$20,000, chartered; Godfrey L. Champagne, Geeland Ave., Francis T. Carall, 710 Main St., Hilda Champagne.

Okla., Drumright—Howard Allen, of Allen Motor Line, reported, acquired Barney's Bus Line, operating busses between Cushing, and Sapulpa.

Tenn., Memphis—Blue Bird Coaches, Inc., capital \$20,000, incorporated; E. E. Coger, W. L. Owen, J. W. Wrap, both Columbia Mutual Trust Bldg.

W. Va., Parkersburg—Monongahela Transport Co., subsidiary of Monongahela-West Penn. Public Service Co., Union Trust Bldg., reported, establish bus line.

Motor Cars, Garages, Filling Stations

Fla., Jacksonville—Buick Motors Co., will erect 4-story concrete building, Riverside and Roselle; cost \$210,000; R. J. Gillespie, Builders.

Fla., Jacksonville—H. and W. B. Drew Co., 45 W. Bay St., will erect concrete and brick addition, 30 W. Bay St.; cost \$100,000; W. T. Hardley, Builder.

Fla., Tampa—Herman D. Bornstein, incorporated; Herman D. Bornstein, 622 Tampa St., Wm. Salzer.

La., Lafayette—Dan Chevrolet Co., Inc., capital \$15,000, incorporated; Dan J. Olivier, Milton A. Voorhies, Martin J. Voorhies, Martinsville.

La., Monroe—Smith-Downs-Reid, is erecting brick auto sales plant; 60x80 ft.; 2-story; composition roofing; cost \$25,000; George C. Love, Contr., 500 L St.

La., Ponchatoula—J. W. Bradley let contract to Louis Thompson, Hammond, for stucco filling station on New Orleans Highway.

Miss., Brookhaven—Laird-Day Motor Co., Inc., incorporated; L. J. Laird, C. E. Day, W. E. Simpson.

Miss., Gulfport—Beckelheimer & Small have contract for \$50,000 storage garage.

Miss., Gulfport—Southern Tire Co., incorporated; Martin J. Gilman, John S. Daddoub, William B. Wedemeyer, 412 Millandon St., New Orleans, La.

Miss., Gulfport—Great Southern Land Co., reported, let contract to Beckelheimer and Small for garage and store room, 13th St. and Illinois Central crossing; 70x180 ft.; 2-story; reinforced concrete with stuccoed exterior; cost \$50,000; building will be occupied by Dodge Automobile Agency and Free Tire Service. 5-19

Miss., Jackson—G. L. Arnold, Canton Rd., reported, erect \$50,000 garage.

Miss., Lexington—Tom Reed representing T. L. Reed, of Belzoni, reported, erecting Panhandle service station; at Tchula, Carrollton and Cedar Sts.; brick veneer and stucco; concrete floors and driveways; 40x48 ft.

Mo., Kansas City—Southwestern Bell Telephone Co., 1010 Pine St., St. Louis, let contract for warehouse to George Fuller Green Co., Roalto Bldg., St. Louis, at \$209,500; U. S. Engineering Co., 914 Campbell St., at \$18,963, for heating; MacMahon Co., 1310 Oak St., at \$14,000, plumbing; Newberry Electric Co., Holt Bldg., at \$6200, electric wires; 3-story for warehouse and 1-story garage; concrete frame construction exterior walls of concrete with space between outside columns and spandrels filled with factory sash; I. R. Timlin Company, architect. 5-26

Mo., Mexico—Aero Oil Co., reported, erect filling station W. Monroe and N. Western Ave.

Mo., St. Louis—Wells Motor Co., 3008 N. Grand Ave., will erect garage and sale room 2820 N. Spring Ave.; brick and steel; 149x100 ft.; 1-story; concrete and reinforced; concrete foundation; cost \$50,000; install steam heat; G. H. Hargitt, Archt., 5332 Vernon Ave.; Mr. Fox, Engr., 3008 N. Grand Ave.; construction of new building by owners.

See Want Section—Building Material and Equipment.

Mo., St. Louis—McCormack-Combs Construction Co., Columbia Bldg., low bidder on \$900,000 municipal service building, consisting of garage and repair shop for city machines; 2 company fire engine house, repair shop for fire engine department; firemen's training school boiler house and transformer room supplying city buildings; reinforced concrete, building block square, 3 story, brick, terra cotta; Study & Farrar, Archts., Arcade Bldg., Martin Engineering Co., Engr., Syndicate Trust Bldg. See City and County—Bldgs. Proposed.

N. C. Asheville—Asheville Knight Motor Co., capital \$100,000, incorporated; E. A. Walker, Vertie Walker, F. L. Wilkins.

N. C. Gastonia—Hoyle Motor Co., capital \$50,000, incorporated; George D. Enfield, Charlotte; W. F. Hoyle, M. Hall Hoyle, Lincolnton.

N. C. Greensboro—Ruffin Tire Co., capital \$10,000, incorporated; A. L. Ruffin, Shirley Apt.; Joseph W. Holt, Smith St. apts., L. L. Holt.

N. C. Rockingham—Willbuck Chevrolet Co., capital \$25,000, incorporated; N. E. Buchanan, T. Williams, F. M. Williams.

N. C. Winston-Salem—Wachovia Motor Co., capital \$100,000, incorporated; K. P. Hogan, E. H. Hogan, Conrad Hock, 868 N. Fourth St.

Okla., Buffalo—W. H. Temple, reported, has plans by Fred S. Hopper, Topeka, Kan. for \$15,000 garage; 75x140 ft. 1 story and basement; brick and hollow tile.

Okla., Wewoka—James C. Fore let contract to H. W. Underhill Construction Co., Wichita, Kan., at \$55,000, to erect garage; including plumbing and wiring.

S. C. Anderson—Harper Brothers will erect garage on W. Orr St.; 1-story; brick; 50x160 ft.; cost \$17,000.

S. C. Orangeburg—Texas Co., reported, erect filling station N. Broughton and W. Amelia Sts.

Tenn., Chattanooga—Johnson Tire Co., 11th and Broad Sts., will erect garage; concrete, hollow tile, faced with rough faced brick; 70x135 ft.; 2 stories; wood floors; composition roof; cost of building \$25,000; of equipment \$5,000; J. B. Hanson Co., Genl Contr., Vance Ave., Memphis; let contract to Hardie Washing Machine Co. and Bowzer & Co., for equipment. 6-2

Tenn., Chattanooga—City, Roger Crox, Comr., will establish gasoline station on E. 11th St.

Tenn., Knoxville—Frank G. Reagen, Spence Pl., let contract to Roehl and Gevira, N. Broadway, to erect service station; Italian type, arched drive, 75x88 ft., 1-story, concrete floor, tile roof. 5-19

Tenn., Knoxville—Rowe Transfer Co., 415 N. Gay St., let contract to Weaver and McGill, General Bldg., for 1-story brick, garage; cost \$20,000.

Tenn., Knoxville—Automobile Tire Co., 414 W. Main Ave., will erect \$9000 addition to garage.

Tenn., Knoxville—Louis Madden, 1502 W. Cumberland Ave., will erect 1-story, brick, concrete and steel garage and store; cost \$18,000.

Tenn., Rogersville—Kenner Motor Co., incorporated; K. B. Kenner, C. W. Sanders, R. L. Cloud.

Tex., Anson—Anson Motor Co., capital \$25,000, incorporated; W. J. Fulwiler, Earl M. Johnson, Ira Culwell.

Tex., Beeville—Schwab & Reed, lessors of Hotel Kohler, reported, erect 1-story garage on Washington St.; concrete and stucco; 40x140 ft.

Tex., Conroe—San Jacinto Motors, Inc., capital \$10,000, incorporated; Charles Harritt, Jr., T. N. Whitehurst, Lillian Harritt.

Tex., Dallas—J. O. Everett, 603 Melba Bldg., reported, has contract for garage and office building for Rosser J. Coke, American Exchange Bank Bldg.; brick, frame, 4-stories, 103x137 ft.; cost \$63,000.

Tex., El Paso—Trotti Motor Co., 617 Texas St., increased capital \$75,000 to \$150,000.

Tex., Fort Worth—Northern Texas Traction Co., A. E. Townsend, Mgr., 400 Main St., will erect garage on Pine St.; cost \$50,000.

Tex., Fort Worth—Doran Marmon Co., Paul Doran, reported, erect 2-story brick building, at W. 7th and Florence Sts.; cost \$30,000.

Tex., Rock Spring—Ed Miller, erect gar-

age; W. E. Simpson Co., Engrs., National Bank of Commerce Bldg.

Tex., San Antonio—Alamo Automobile Co., capital \$25,000, incorporated; Don Clayton, 523 E. Magnolia St., Hall Walker, D. B. Hood.

Tex., San Antonio—Alemite Garage, 407 E. Martin St., H. Kaplan, owner, erecting second story to garage; capacity 425 cars; Atlee B. Ayres, Bedell Bldg.

Tex., San Antonio—Hugo Grote, Inc., capital \$10,000, incorporated; Hugo Grote, 710 Broadway, Lillie Grote, Arthur Schaefer.

Tex., San Antonio—Motoramp Garages, Inc., capital \$10,000, incorporated; O. A. McCracken, Jr., Marvin Williams.

Tex., San Antonio—Henry-Gaston Motor Co., capital \$30,000, incorporated; Pat Henry, 226 Dunning St., John L. Henry, Pat Henry, Jr.

Tex., San Antonio—Smith Bros., Plaza Hotel, reported, erect garage on Bowens Island; fireproof, brick and stone.

W. Va., Bluefield—Commercial Trading Co., Bluefield Ave., let contract to Phillippe Dye, 420 Union St., for garage; Alex B. Mahood, Archt., L. C. Bldg.

Railways

Tex., Fernando—The San Benito & Rio Grande Valley Railway has been authorized by the Interstate Commerce Commission to build proposed extensions, one from Fernando 6 mi. eastward and other from San Benito, 18 mi. G. H. Winsor, San Benito, Tex., Pres. & Gen. Mgr.

Tex., Harlingen—The San Antonio & Arkansas Pass Railway authorized by the Interstate Commerce Commission to build its proposed extension from Harlingen to Brownsville, Tex., about 30 mi. R. W. Barnes, Ch. Engr. Southern Pacific System, Houston, Tex.

Railway Shops and Terminals

Ky., Paducah—Illinois Central Railroad, reported, let contract to Mississippi Valley Structural Steel Co., Decatur, Ill., to erect structural steel tower 25 ft. high, to bear overhead pipe line from new shops; pipe lines being installed by Power Piping Co., 879 Beaver St., Pittsburgh, Pa.; Joseph E. Nelson and Sons, has contract for power house, Chicago Bridge & Iron Co., Chicago, Ill., sub-contractors. 2-10

Mo., Springfield—St. Louis, San Francisco Ry. Co., F. G. Johnah, Ch. Engr., reported, erect \$35,000 addition to coach shops; 1-story brick, steel, and concrete.

Tenn., Yale—St. Louis-San Francisco Railway, St. Louis, Mo., will soon open bids for 24-stall frame roundhouse.

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Alabama—State Highway Comn., Col. Woolsey Fennell, Director, Montgomery, plans 41 road projects, totaling 534 miles; Mobile County—10.85 mi., Theodore to Grand Bay; Montgomery County—5 mi. Birmingham Highway, Montgomery to Reese's Ferry Bridge; 47 mi. Montgomery—Mobile road, Davenport to Georgiana; other roads in Morgan, Lawrence, Limestone, Madison, Cullman, Cherokee, Lamar, DeKalb, St. Clair, Tuscaloosa, Coffee, Baldwin, Marengo, Sumter, Henry, Tallapoosa, Covington, Dale, Geneva, Bullock, Etowah, Mobile, Cleburne, Washington, Conecuh, Monroe, Marshall, Winston, Crenshaw, Butler, Bibb, Eacambia and Russell Counties.

Ala., Alabama—City, W. H. Morton, Clk., receives bids June 15 for 5,208 sq. yd. sidewalks, 2,000 cu. yd. excavation, 9,636 lin. ft. 18 and 48-ft. curb and gutter, 2,688 lin. ft. 15 to 36-in. storm drains 75 4x6 concrete culverts, 20 inlets, 8 manholes; plans on file and from J. B. McCrary Engineering Corp., Atlanta, Ga., R. D. Morgan, Mayor.

Ala., Gadsden—State Highway Comn., Montgomery, plans completing through roads in Etowah County, connecting state from north to south, east to west; W. A. McCalla, State Highway Engr.

Ala., Selma—State Highway Comn., Mont-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

gomery, plans road from Selma to Burnsville, then to Prattville; W. A. McCalla, State Highway Engr.

Ark., Arkadelphia—Comms. of Paving Dist. No. 4, plan about 60 blocks of concrete paving in dist., west of business section.

Ark., Huntsville—State Highway Dept., Little Rock, considering state highway between St. Paul and Clarksville; Chris Wright, Locating Engr.

Fla., Bartow—Polk County Comms. plan completing Frostproof-Vero link of cross-state highway; build boulevard around Lake Reedy; \$450,000 available.

Fla., Fort Lauderdale—Broward County Comms. plans building 14 roads in Dist. No. 3; ranging from \$8,000 to \$111,000, including road from Hollywood Blvd. to Miami canal, costing \$111,000; seven roads, costing \$15,000, each; total cost \$365,000. See Financial News—Bond Issues Proposed.

Fla., Fort Lauderdale—City, B. J. Horne, Mgr., plans paving streets in various sections of city; reported, between \$100,000 to \$125,000, available.

Fla., Jacksonville—Duval County Comms., Frank Brown, Clk., plan receiving bids to widen to 20 ft., and repave 3.2 mi. Lem Turner Road from city limits to Trout River Bridge; F. M. Edwards, County Engr.

Fla., Miami—City Comn., H. E. Ross, Clk., plans expending \$21,013 for sidewalks on various streets; Frank H. Wharton, Mgr.

Fla., Palatka—Putnam County Bond Trustees, J. W. Hart, Sec., receive bids June 22 for 22 mi. lime rock, gravel base, double treatment roads. 6-2

Fla., Tampa—City Comn. Lesley Brown, Mgr., receives bids June 14 for 2,311 sq. yd. 2½-in. vitrified brick pavement, asphalt filler, 2,233 lin. ft. granite curbing, 1,378 cu. yd. grading; plans from R. D. Martin, City Engr.

Fla., West Palm Beach—Palm Beach County Comms. plan road and bridge building, cost \$660,000. See Financial News—Bond Issues Proposed.

Ga., Claxton—Evans County Comms. plan building road from Claxton to Lotts Creek.

Ga., Cordele—Crisp County plans paving 5 mi. National Highway, south of Cordele.

Ky., Burlington—State Highway Comn., Frankfort, plans 17 mi. Constance-Petersburg Road, through Constance, Hebron, Bullittsville and Idlewild, to corporate limits of Petersburg; cost about \$200,000. Address Boone County Judge.

Kentucky—State Highway Comn., Frankfort, plans receiving bids in July for roads in 3 counties: Warren County, 5 mi. Bowling Green—Morgantown road; Russell County—surface Jamestown road, to Casey County line; Whitley County—Traffic bound macadam road, between Williamsburg and Saxton; E. N. Todd, State Highway Engr.

Ky., Brooksville—State Highway Comn., Frankfort, plans receiving bids in Aug. for Cynthia-Brooksville road, Harrison County; E. N. Todd, State Highway Engr.

Ky., Marion—State Highway Comn., Frankfort, and Crittenden County plan graveling 8 mi. Paducah-Louisville road, from Marion to Livingston County line.

La., Jennings—Louisiana Highway Comn., Baton Rouge, receives bids June 28 for Jennings-Elton Highway; plans on file; J. M. Fourmy, State Highway Engr.

Maryland—State Roads Comn., Baltimore, receives bids June 21 for 7 roads: Alleghany County—5 mi. concrete shoulders, between Frostburg and Midland, Cont. 48-A; Washington County—67 mi. concrete shoulders through Smithsburg, Cont. W-32; Baltimore County—3.05 mi. concrete shoulders, along Bellona Ave. and Ruxton road, from Charles Street Ave. to Falls road, Cont. B-84; Frederick County—1 mi. macadam resurfacing, from Frederick city line toward Yellow Springs, Cont. F-102; Calvert County—2 mi. gravel, Lusby toward Sollers, Cont. C-28; Queen Anne's County—1.40 mi. concrete, Sudlersville toward Duhamel Corner, Cont. Q-39; Somerset County—1.50 mi. concrete, through Lawsonia, Cont. S-26; plans on file; John N. Mackall, Chmn.; L. H. Stewart, Sec.

Maryland—State Roads Comn., Baltimore, received low bids for 9 roads and 3 bridges: Carroll County—1 mi. concrete, from end of Cont. Ch-39 to Cooksey, G. B. Mullin Co., 1296 Upshur St., N. W., Washington, D. C., \$11,769; Frederick County—98 mi. concrete, from end of Cont. F-88 to Rocky Ridge, M. J. Grove Lime Co., Marine Bank Bldg., Baltimore, \$32,984; St. Marys and Charles Counties—5.82 mi. concrete shoulders and re-surfacing, Mechanicsville to end of concrete south of Hughesville, Thomas, Bennett

& Hunter, Westminster, Md., \$103,148; Carroll County—1 mi. concrete, from end of cont. Cl-34 toward Lineboro, H. H. Hirschberger, 3723 Reisterstown road, Baltimore, \$21,000; Wicomico County—1 mi. concrete, end of cont. W-36 toward Delaware State line, Layfield & Waller Paving Co., Quantico, \$16,964; Montgomery County—1 mi. concrete shoulders along Sligo Ave., end of cont. 125-B, to rince Georges County line near Avenel, Gosnell-Long Co., Frederick, \$4,876.

In Worcester County—79 mi. concrete, from Pocomoke City toward Cedar Hill, Hannaman-Burroughs Co., Salisbury, \$13,466; Baltimore County—2.49 mi. concrete shoulders, along Falls Road, end of Cont. B-1-A, to Ridge Church, Thos. P. Murphy, Towson, \$16,808; Prince Georges County—1.31 mi. concrete shoulders along Marlboro Pike, from D. C. line to beginning of Cont. P-3-A, E. R. P. Smith, Hyattsville, \$9,625; Carroll County—26-ft. span reinforced concrete arch bridge over Snowden Creek, Liberty road, 1 mi. west of North Branch, Luten Bridge Co., York, Pa., \$5,104; Frederick County—30-ft. span reinforced concrete girder bridge over Little Hunting Creek, Frederick-Thurmont road, near Satoctin, M. J. Grove Lime Co., \$3,427; 50-ft. span reinforced concrete arch bridge over Flat Run, on road from Emmittsburg to Pennsylvania State line, Concrete Steel Bridge Co., 600 E. Pike St. Clarksburg, W. Va., \$8,595. 5-19

Md., Baltimore—Board of Awards receives bids June 15 to grade, curb and pave with 9,500 sq. yd. sheet asphalt on concrete base, streets in Cont. No. 409; plans on file; Stuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore—Board of Estimates approved expenditure of \$46,000 to pave with asphalt, Whitelock and Clendenin St., Argyle Ave.; Bureau of Highways plans grading Hargest Lane, Thirty-ninth St.; Wm. F. Broening, Mayor; Stuart Purcell, Highways Engr.; B. L. Crozier, Ch. Engr.

Md., Frederick—Mayor and Board of Aldermen plan opening South Court St.; paving with emulsified asphalt, between St. Patrick St., and concrete bridge over Carroll Creek; lay curb and gutter.

Md., Rockville—Montgomery County Comms. plan 7 concrete 15-ft. wide roads: 2 mi. from Poolesville toward Martinsburg; 2 mi. Etchison Route, from Laytonsville toward Damascus; 1 mi. from end of present construction, from Damascus to Purdum, toward Lewisdale; 1 mi. from Brookeville north toward Sunshine; 1½ mi. from Buck Lodge to Boyds Station; 1½ mi. from Barnesville to Comus; 1 mi. from end of present construction, from Damascus toward Browningsville; plan resurfacing Columbia road, Coleville Dist., cost about \$30,000; widen Wisconsin Ave., from Dist. line through Bethesda; widen Georgia Ave., through Silver Spring; resurface Carroll Ave., Takoma Park; build roadway between Sixteenth St. Dist. line and Georgia Ave., and Coleville-Baltimore State road, at Sligo; extend River road from Wilson lane toward Potomac.

Miss., Bay St. Louis—Hancock County Road Protection Comn., R. C. Engman, Chmn., receives bids June 14 for road protection along city extending 3 mi. north and 6.7 mi. south of present road protection; 48,800 lin. ft. steeped type concrete wall, 2,679 lin. ft. 12x36-in. diameter, drain pipe, 1,104 cu. yd. concrete in culverts, 261,500 cu. yd. dredged earth fill; plans from Chanery Clk., and J. W. Billingsley, Cons. Engr., Interstate Bank Bldg., New Orleans, La.

Miss., Greenville—State Highway Dept., Jackson, plans re-building about 4 mi. concrete highway, from north to south boundary lines in Washington County; H. C. Dietzer, State Highway Engr.

Miss., Meridian—City, Mayor Owen, considering paving Eighth St.

Miss., Ripley—Tippah County Board of Suprs. plans receiving bids for road north of Ripley.

Mo., Independence—State Highway Dept., Jefferson City, plans concreting U. S. Highway No. 71, formerly Highway No. 1 between Hickman Mills and Eightieth St., and Prospect Ave.

Mo., Joplin—City, Maud E. Fons, Clk., plans paving with Warrenite bitulithic, 10 blocks B St., estimated cost \$15,000; Twenty-second St., with concrete, from Pearl to Jackson Ave., estimated cost \$6550.

Mo., Kansas City—City, Matthew S. Murray, Director of Public Works, plans letting contracts to repave Main St., Twelfth to Twentieth St.; Twentieth, Baltimore to McGee.

Mo., Springfield—City, C. A. Dickerson,

Clk., plans widening Benton Ave. to about 40 ft., between Mitchell and Walnut St.

Mo., Springfield—Comms. Springfield Special Road Dist. plan improving 3 roads in district: 80-ft. boulevard along west city limit, between Sherwood School house and Kearney St.; open and extend Grand St. from Kansas Ave. present western limit, to point several miles west to Brookline road; open and extend road, extending south from Nichols; W. H. Schreiber, Dist. Engr.

Mo., Springfield—City, C. A. Dickerson, Clk., plans repairing Weller and National Ave.

Mo., St. Louis—Board of Public Service, Director of Streets and Sewers Brooks, plans widening Chippewa St., 60 to 80 ft. between Grand and Kingshighway Blvd.; widening Morgan Ford road between western city limits and Arsenal St.; widening Meramec St. 20 ft. between Gravois Ave. and Chippewa St.; 80 ft. between Morgan Ford and Kingshighway Blvd.

N. C., Charlotte—City, R. L. Brown, Commr. of Public Works, plans widening Fourth St., to 55 ft., between College and Brevard St.

Okla., Enid—City Comms. plan West State St., between Monroe and Jefferson; F. C. Magruder, City Engr.

Okla., Enid—City, R. T. Williams, Clk., plans widening 6 blocks North Independence St. 8 ft.

Okla., Fairfax—Osage County, Earl Gray, County Commr. plans 2 mi. asphalt road west of Fairfax on Fairfax-Ponca City Road.

Okla., Newkirk—Kay County Comms., plan 1 mi. paving Arkansas River bottom highway, northward from bridge at Kaw City.

South Carolina—State Highway Dept., Columbia, receives bids June 14 for 5 roads and 3 bridges: Marion County—7,707 mi. Route 3, between Marion and Mullins, 81,389 sq. yd. 5-in. concrete base and headed, 74,606 sq. yd. 2-in. asphaltic concrete surfacing; 7,876 mi. Route 3, between Pee Dee and Marion, 82,806 sq. yd. 5-in. concrete base and headed, 75,915 sq. yd. 2-in. asphaltic concrete surfacing; York County—3,502 mi. Route 16, between Clover and North Carolina line, 14,918 cu. yd. excavation, 35,171 sq. yd. plain concrete pavement, 7½-6-7½-in., 1,830 sq. yd. plain concrete pavement, 8-6½-8-in.; 6,107 mi. Route 16, from point near Guthrie to Chester County line, 28,594 cu. yd. excavation, 64,494 sq. yd. plain concrete, 8-6½-8-in.

In Pickens County—5,858 mi. Route 2 through town of Liberty, and from end of Project S-631-C, at city limits of Central, to beginning of pavement near Clemson College, 36,522 cu. yd. excavation, 50,413 sq. yd. plain concrete pavement 7½-6-7½-in., 11,100 sq. yd. plain concrete pavement, 8-6½-8-in. Union-Chester Counties—reinforced concrete and steel bridge over Broad River, Route 7, between Chester and Carlisle; substructure: 2,170 cu. yd. excavation, 317,217 lb. reinforcing steel; steel superstructure: three 150-ft. through steel trusses, 28,902 lb. reinforcing steel; Aiken County—treater timber and structural steel bridge, Route 12, over Southern Railway, ear Augusta, 10,898 lb. structural steel; Marion County—treated timber bridge, Route 2, Lumber River Swamp, between Nichols and North Carolina line, 900 lin. ft. treated timber piles, 150 tons rip-rap; plans from State Highway Engr.; Ben M. Sawyer, Ch. Highway Commr.

S. C., Camden—Kershaw County Board of Directors plans expending \$1,790,000 to hard surface 2 roads, totaling about 70 mi.: Route 26 31.1 mi. from Sumter County line, through Camden and Westville to Lancaster County line; Route 50, 38.3 mi. from Richland County line, through Camden and Bethune, to Chesterfield County line; may let contract in Aug.

S. C., Charleston—Charleston County Sanitary & Drainage Comn. receives bids June 16 for 2.0 mi. asphalt surfacing of Meeting Street Belgian blocks, from Magnolia Crossing to point above Five-Mile Overhead; E. D. Jervey, Engr.

S. C., Greenville—Greenville County Comms. receive bids June 14 for 5.8 mi. Route No. 2, near Clemson, towards Greenville.

S. C., Orangeburg—State Highway Dept., Ben M. Sawyer, Ch. Highway Commr., Columbia, receives bids June 14 for 15,435 mi. Route 6, between Orangeburg and Branchville; 92,338 cu. yd. excavation, 37,982 sq. yd. and clay surfacing, 9,135 lb. reinforcing steel; plans on file and from State Highway Engr.

Tennessee—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr.,

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Nashville, receives bids July 8 for 9 roads and 12 bridges: Davidson County—9.904 mi. grading and bridges, State Highway No. 24, between Nashville and Wilson County line; Hamilton County—about 1 mi. grading and draining, Highway No. 2, between city limits of Chattanooga and Federal Aid Project No. 1, at foot of Lookout Mountains; 568 mi. concrete deck girder bridge, including approaches over Lookout Creek, State Highway No. 2, near Chattanooga; 445 mi. overhead bridge, State Highway No. 2, over Nashville, Chattanooga & St. Louis Ry. tracks near Chattanooga; 6.024 mi. grading and draining, between Silverdale and Bradley County line, including two 20-ft. bridges; Sevier County—14.479 mi. grading and draining, State Highway No. 79, between Pigeon River, near Gatlinburg and North Carolina line; Smith County—5.160 mi. grading and draining, State Highway No. 4, Carthage to Elmwood; Polk County—12.56 mi. concrete surfacing, State Highway No. 39, Benton to Georgia State line; McNary County—12.672 mi. State Highway No. 5, Selmer to Mississippi State line, also 5 bridges; Houston County—1.063 mi. grading and draining, Highway No. 13, near Erin; 439 mi. grading and draining, Highway No. 39, near Erin, also 3 bridges, estimated cost \$1,500,000. 6-2

Tenn., Chattanooga—City, Richard Hardy, Mayor, plans widening and extending several downtown streets, including Cherry, Ninth and Tenth.

Tenn., Chattanooga—Dept. of Streets and Sewers, R. H. Crox, Commr. receives bids June 13 for cement concrete sidewalks in Paving Dist. Nos. 85 and 86; F. K. Rosamond, City Treas.

Tenn., Dyersburg—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commrs., Nashville, let contract in July for 18-ft. concrete highway from Dyersburg to Mississippi River. 6-2

Tenn., Martin—City plans graveling Cemetery road, address City Clk.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids June 14 for 3 roads: Grimes County—6.71 mi. concrete, State Highway No. 6, from Waller County line. 70,530 cu. yd. concrete; Hall County—12.56 mi. concrete, Highway No. 5, near Memphis. 142,925 sq. yd. concrete pavement, 326,108 lb. reinforcing steel, 205,400 S. Yd., fine grading subgrade and shoulders; Tom Green County—5.400 mi. grading and structures, State Highway No. 99, from 12 mile bridge west to Iron County line, 32,735 cu. yd. excavation, 70,318 lb. reinforcing steel; plans on file and from County Engrs.; R. A. Thompson, State Highway Engr.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, plans receiving bids for 6 roads: Hill County, 5.65 mi. bituminous surface, Highway No. 2-E, from Highway No. 2-A, to Road Dist. No. 5; 4.850 mi. bituminous surface, highway No. 2-E, from Johnson County line to Road Dist. No. 2; 3.916 mi. bituminous surfacing, Highway No. 6, from Ellis County line south; Hall County—reinforced concrete pavement; .88 mi. Highway No. 5, Donley County line to Memphis; 11.57 mi. Highway No. 5, from Memphis southeast; 1.110 mi. Highway No. 5, through Memphis; R. A. Thompson, State Highway Engr.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids June 14, tentative date, for 6 roads: Terrell County—5.231 mi. grading and bridges, Highway No. 3, from Val Verde County line, west; Tom Green County—5.409 mi. grading and bridges, Highway No. 9, from San Angelo to 12 Mile Bridge; Taylor County—5.74 mi. high type surfacing, Highway No. 1, Abilene to Callahan County line; Shackelford County—17.358 mi. grading and bridges, Highway No. 1-A, intersection of Highway No. 1 to Jones County line; Jones County—5.79 mi. grading and bridges, Highway No. 1-A, from Shackelford County line to Callahan County line; Callahan County—649 mi. Highway No. 1-A, from Jones County line to Hall County line; R. A. Thompson, State Highway Engr. 5-26

Tex., Beaumont—City, Ollie J. Bloyd, Mgr. plans receiving bids to pave North and Hazel St. and Broadway, Royal and Foch St.

Tex., Coleman—City plans paving West College Ave., from Commerce to J. P. Morris home. Address City Clk.

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, plans paving Mesquite St., Hughes to Carroll; H. Levinson, City Engr.

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, plans grading West Broadway from salt flats to western city limits; W. J. Smith, Street Commr.

Tex., Falfurrias—Brooks County, J. A. Brooks, County Judge, plans 15 mi. reinforced concrete, Highway No. 12, from Jim Wells

County line south, estimated cost \$325,000; Chas. H. Kendall, Engr.

Tex., Floresville—Wilson County plans 10 mi. San Antonio-Corpus Christi highway, from 2 mi. east of Floresville, through Poth to Karnes County line, north of Falls City; Fred E. Hess, County Engr. See Financial News—Bond Issues Proposed.

Tex., Fort Worth—City, O. E. Carr, Mgr. plans paving Clover lane, between Camp Blvd., and El Campo St., Odessa St., DeWitt St., and Weatherford Addition; James St., Shaw St. to Cleburne road.

Tex., Galveston—Galveston County, C. C. Washington, County Engr., preparing plans for ramp and roadway at east end of east Eng. seawall, also roadway across Lagoon.

Tex., Houston—Harris County Commrs. Court, H. L. Washburn, County Auditor, receive bids June 20 for 5 mi. concrete Clinton road; plans on file. 5-26

Tex., Jourdan—Ataseosa County, Earl D. Scott, County Judge, plans highway improvement in Road Dist. No. 2; Jas. V. curnette, County C. Engr. 4-28

Tex., Lagrange—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids June 14 for 8.239 mi. grading, Highway No. 73, from Fayetteville to Austin, including reinforced concrete bridges, culverts and treated timber pile trestle bridges, Fayette County; R. A. Thompson, State Highway Engr.

Tex., La Feria—City, L. R. Beddoes, Mayor, receives bids for street paving, curb and gutters, storm sewers, inlets, etc.

Tex., Lefors—Gray County plans road building in Precinct No. 4, including McLean, Alaneed and Back City; cost \$250,000. Address County Commrs. See Financial News—Bond Issue Proposed.

Tex., Midland—City plans paving principal business and some residential streets. Address City Clk.

Tex., Palo Pinto—Palo Pinto County, E. L. Pitts, County Judge, plans road building, cost \$675,000. See Financial News—Bond Issues Proposed.

Tex., Plainview—City plans paving, cost \$30,000. Address The Mayor. See Financial News—Bond Issues Proposed. 5-12

Tex., Port Arthur—City, J. P. Logan, Mayor, plans hard surfacing 824 blocks of unimproved streets, cost \$320,000. See Financial News—Bond Issues Proposed.

Tex., San Antonio—City, John W. Tobin, Mayor, receives bids July 13 for 6 blocks grading, raising, filling, foundation, curbs, and 1-in. or 1½-in. cold rolled rock asphalt; I. Ewig, City Engr.

Tex., San Antonio—City, John W. Tobin, Mayor, receives bids July 13 for paving 5 blocks on Broadway, from Apple St. to Brackenridge Ave; hard base, asphalt topping.

Tex., San Antonio—City John W. Tobin, Mayor, plans widening Main Ave. to 80 ft. from Houston St. to Romana Plaza, Cost \$75,000; I. Ewig, City Engr.

Tex., Seymour—Baylor County, J. T. St. Clair, County Judge, plans bituminous surfacing, Highway No. 24, Seymour to Knox County line, estimated cost \$52,000; J. G. Rollins, Engr.

Tex., Sherman—Grayson County, R. M. Carter, County Judge, plans 5 roads: 72 mi. Class A concrete or equivalent pavement, Highways Nos. 5, 6 and 91; 33 mi. Class B. black-topped road, from Whitesboro to Denton County line, through Collinsville and Tloga, and from Bells to Collin County line, through Whitewright; cost \$2,500,000. See Financial News—Bond Issues Proposed. 5-5

Tex., Sinton—State Highway Dept., R. S. Sterling, Chmn., Austin, plans extending Houston-Victoria highway from Victoria to Refugio, through Woodsboro and on to Sinton; R. A. Thompson, State Highway Engr.

Tex., Waco—McLennan County, W. T. Lockwood, County Auditor, receives bids June 27 to improve highways in county, 3462 cu. yd. excavation, 56,812 cu. yd. gravel; plans from Manton Hannah, County Engr.

Tex., Waco—City, E. E. McAdams, Mgr., plans resurfacing Pleasant St., Elm to Pecan, with "squeegee" asphalt mixture; J. H. Strange, City Engr.

Tex., White Deer—City plans street improvement, cost \$20,000. Address City Clk. See Financial News—Bond Issues Proposed.

Virginia—State Highway Comm., H. G. Shirley, Chmn., Richmond, received low bids for 4 roads and 8 bridges: Prince Edward County—2.5 mi. concrete, from point east of Bush River to Farmville, Leighton & Tinsley, Richmond, \$122,242; Essex County—3.963 mi. concrete, from Brays Fork, west, G. Y. Carpenter, Chester, Va., \$143,540;

Rockbridge County—4.875 mi. grading and drainage, from Lexington, west, also 2 bridges over 20-ft. span, over Whistle and Woods Creeks, Robert Martin Co., Salem, \$149,094; Westmoreland County—3.145 mi. grading and drainage, from Montrose High school to point west of Chandlers Mill, bridge over Chandlers Mill, bridge over Chandlers Mill pond, Marye & Blankenship, Charlottesville, \$29,220; Princess Anne County—32-ft. clear single leaf Bascule span over Lynnhaven Inlet, east of Norfolk, Al. S. Fox & Co., Dayton, Ohio, \$26,992; superstructure, except, Bascule Span, substructure, and fenders, of Lynnhaven Inlet Bridge, J. O. Sadler Co., Portsmouth, \$101,986; Greenville County—187-ft. 6-in. reinforced concrete beam spans over Fontaine Creek, 2 mi. north of Pleasant Hill, substructure and superstructure, Lutten Bridge Co., Mercantile Bldg., Knoxville, Tenn., \$21,809; Mecklenburg County—80-ft. steel truss span, over Butchers Creek, 4 mi. west of Boynton, Concrete Steel Bridge Co., 600 E. Pike St., Clarksburg, W. Va., \$8,208. 5-19

Va., Norfolk—City, Walter H. Taylor, 3d, Director of Public Works, plans curbing and guttering on Lafayette Blvd., from Cottage Toll Road to Fairmount Park Station.

Va., Richmond—City, R. Keith Compton, Director of Public Works, plans widening and improving Forest Hill Ave., Thirty-seventh to Forty-first St.

Va., Roanoke—City plans street improvement. Address City Clk. See Financial News—Bond Issues Proposed.

W. Va., Princeton—Mercer County considering road up Widemouth creek, from Giatto to Wyoming County line. Address County Commrs. See Financial News—Bond Issues Proposed.

W. Va., Welch—McDowell County, Fred M. Stewart, County Road Supvr., plans hard surfacing 1½ mi. War-Virginia Line road, from Beech Fork to State line.

Contracts Awarded

Ala., Birmingham—City Comm., J. M. Jones, Jr., Pres., let contracts at about \$135,095, to pave 9 streets, avenues and alleys; H. N. Bowdry, Alabama Power Bldg.; Southern Roads Co., Pioneer Bldg.; Morgan-Hill Paving Co., Woodward Bldg., all Birmingham; Mitchell Bros. Construction Co., Oneonta; J. E. Millam. 5-5

Ala., Birmingham—Jefferson County Board of Revenue let contracts for 8 roads: Project No. 20, plain concrete, Waterworks road, Dewey Jones, \$62,080; No. 70-A, 3½-in. asphaltic concrete base, 1½-in. Warrenite bitulithic top, New Country Club road, Independent Paving Co., American Trust Bldg., \$25,340; No. 85-A, plain concrete, Twenty-sixth Street road, J. W. Gwin, \$38,950; No. 90, plain concrete, Bessemer-Brighton road, Sullivan-Long Co., \$27,040; No. 86, 3-in. penetration pavement, Ensley-Docena-Crumley's Chapel road, Sam E. Finley, 212 W. North Ave., Atlanta, Ga., \$12,167; Trussville road, 1½-in. Kyrock pavement, Lacey Construction Co., \$12,650; Roebuck Circle road, 1½-in. Colrock pavement, Morgan-Hill Paving Co., Woodward Bldg., \$7540; North Birmingham-Sayreton road, 2-in. Alabama rock pavement, Southern Paving & Const. Co., \$7800. 4-28

Ark., Bentonville—Comms. of Bentonville Paving Dist. No. 3, let contract to Locher Construction Co., Okmulgee, Okla., at \$30,865, to pave Main St. and 4 blocks of intersecting streets. 4-21

Ark., Hot Springs—Comms. of Street Improvement Dist. No. 98, W. E. Chester, Commr., Arlington Hotel, let contract to Ed. B. Mooney Construction Co. 311 Broadway, at \$19,640, for concrete paving and drainage on Central Ave. to entrance of U. S. Reservation. 2-3

Ark., McGehee—City let contract to H. E. Monk, 818 W. 20th St., Pine Bluff, at \$230,125, for paving streets with concrete and gravel, 19 mi. curb and gutter, and 2 mi. storm sewers. 4-14

D. C., Washington—Dist. Commrs. let contract to Loomis-Wetzel Contracting Co., 1125 14th St., N. W., at \$2.17 per sq. yd. for 7,000 sq. yd. cement concrete gutter, and at 68 cents per ft. for 20,000 lin. ft. cement concrete curb. 5-26

Fla., Panama City—City Comm., J. F. Bannerman, Clk., let contract to Ebersbach Construction Co., 1428 Florida St., at \$128,765, for street paving, including beach drive, between school buildings, St. Andrews Bay, and cemetery in Millville. 5-12

Fla., Tarpon Springs—City let contract to J. B. McCrary Co., Atlanta, Ga., to pave Canal St., Lake Blvd., and section of Athens Blvd.

Kentucky—State Highway Dept., Frankfort, let contracts for 11 roads: Boone Coun-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ty—5.328 mi. grade and drain, Florence-Warsaw road, Mills & Connelly, Independence, Ky., \$48,489; Casey County—10.5 mi. creek gravel, corrugated metal pipe, Liberty-Russell Springs, Cundiff & Carigan, Liberty, \$35,048; Daviess County—1.887 mi. river gravel, Owensboro-Fordsville, Holland & Sheridan, Lewisport, \$11,181; Fulton County—3.013 mi. bank gravel, Fulton-Clinton, N. E. Stone & Co., Madisonville, \$29,254; Graves County—8.665 mi. grade and drain, Mayfield-Benton, N. E. Stone & Co., \$97,432; Hardin County—2.927 mi. Vine Grove-Radcliffe road; traffic bound macadam, local stone, J. S. Walton Co., Brandenburg, \$17,883; traffic bound macadam, ship stone, Perkins, Darnell & Williams, Hodgenville, \$11,267; water-bound macadam, G. E. Miller, Visalia, \$36,676; Hart County—3.520 mi. grade and drain, Munfordsville-Elizabethtown, Jenkins Construction Co., Elizabethtown, \$54,298.

In Hopkins-Muhlenberg Counties—4.936 mi. Nortonville-Greenview road, traffic bound macadam, Corum Bros., Madisonville, \$91,181; bank gravel, \$104,931; Johnson County—4.879 mi. Prestonsburg-Paintsville, Hatfield Construction Co., 572 14th St., Huntington, W. Va., \$126,196, reinforced concrete standard material; \$126,196, reinforced concrete slag aggregate; Ashland Supply Co., \$127,772, reinforced concrete Sand St., rock asphalt concrete base; Price, Lynch, Boggs & Co., Lexington, \$164,991, standard material; Carey-Reed Co., Guaranty Bank Bldg., Lexington, \$138,055; Amesite Nap. sandstone; Ashland Supply Co., \$116,313, bituminous macadam Nap. sandstone; Madison County—7.494 mi. Richmond-Winchester road, Ashland Supply Co., \$76,272, concrete; \$46,445, St. masonry; Meltealf County—4.504 mi. Edmington-Greensburg; John Oman, Jr., Chamber of Commerce Bldg., Nashville, Tenn., \$41,637, first-class pipe; \$41,517, class A. C. M. pipe; Mason Construction Co., West Point, Ky., \$46,445, cast-iron pipe.

4-28 and 5-19

Kv., Owensboro—State Highway Comm., Frankfort, let contract to Holland & Sheridan, Lewisport, to top surface with river gravel, 1.9 mi. Owensboro-Fordsville Road, between Whitesville and Ohio County line.

4-28

La., Shreveport—Caddo Parish Police Jury let contract to Dye & Purvis, Shreveport, for 3 mi. grading, etc., Mooringsport-Big Pass road, estimated cost \$12,500.

5-19

La., Shreveport—City, L. E. Thomas, Mayor, let contracts, at \$50,929, for paving 4 streets with natural rock asphalt; Shreveport Paving Co., Giddens Lane Bldg.; M. Hyman, Mansfield rd.

Miss., Ocean Springs—City let contract to Carpenter & Moore, at \$16,813, to pave Bowen Ave., lay curbs and gutters, from Washington to Ward Ave. Address City Clk.

Mo., Joplin—City, Maud E. Fons, Clk., let contract to V. E. Koch, 702 N. Pearl St., at \$1.81 per sq. yd. to pave Twentieth St.; \$1.81 per sq. yd. for Jackson Ave.; \$1.78 per sq. yd. for Pennsylvania Ave.; W. D. Doss, for gutters on Twentieth St.

Mo., Kansas City—City let contract to Midwest Paving Co., at \$18,644, to pave Eleventh St.; to Halpin-Dwyer Construction Co., Railway Exchange Bldg., to repave Agnes Ave.; Jerry Morgan, to grade Wyandotte St. between Seventy-first and Seventy-fifth St.; Hyman Spiteaufsky, 3129 Victor St., to resurface Thirty-sixth St., Myrtle to Jackson Ave. Address City Clk.

Mo., St. Louis—City, Board of Public Works, let contracts at \$300,903, to rebuild 13 streets; Webb-Boone Paving Co., 5103 Flyer St.; C. A. Moreno, Syndicate Trust Bldg.; Heman Construction Co., Title Guaranty Trust Bldg.; Central Paving and Construction Co., 6161 Maple St.; Bridges Asphalt Paving Construction Co.

N. C., Asheville—Buncombe County Commrs., E. M. Lyda, Chmn., let contract to R. C. Stevens, 20 College St., for Monticello road; to Lee J. Smith, 16½ Wall St., both Asheville, for French Broad School road; 60,000 sq. yd. concrete, about 6 mi. 18-ft. 5-19

Oklahoma—State Highway Comm., Oklahoma City, let contracts for 2 roads and 2 bridges; Alfalfa County—1.4 mi. grading, drainage and concrete pavement, Carmen, northward, Rightmire & Baldwin, Ponca City, \$37,208; Woods County—1 mi. concrete, Highway No. 15, from Waynoka, south, Rightmire & Baldwin, \$27,794; Bush Creek Bridge near Pauls Valley, Highway No. 4, Garvin County, J. W. Williams, Roaston, \$24,135; 144-ft. steel truss bridge on Highway No. 5, between Bryan and Marshall Counties, J. W. Williams, \$17,613.

3-31

Okla., Enid—City let contract to Ray Murray, at \$7748 for 2 blocks of pavement on

Oklahoma St., between Fourth and Fifth, and South Fourth, between Oklahoma and Park.

Okla., Newkirk—Kay County Commrs., let contract to Herman Proctor to raise grade of Arkansas River bottom highway, from bridge at Kaw City, northward.

Okla., Seminole—City, Palmore Noe, Clk., let contract to Ward-Beekman & Brooks, Inc., 1801 E. Ninth St., Oklahoma City, for 4 blocks 7-in. concrete paving, and 5-in. concrete, 3-in. vitrified brick.

5-26

Tenn., Johnson City—City let contract to Southeastern Paving Co. to pave and improve streets in about 22 districts.

5-12

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, let contracts for 4 roads: Houston County—3.7 mi. Highway No. 6, Hanson-Pearce Constructing Co., 327 San Jacinto Annex, Beaumont, \$125,321; Walker County—15.4 mi. Highway No. 19, Gibson & Mitchell, Pauls Valley, Okla., \$355,175; Callahan County—5.4 mi. Highway No. 1, McClung Construction Co., F. & M. Bldg., Fort Worth, \$80,174; Wilbarger County—6.9 mi. Highway No. 5, J. P. Foty, Wichita Falls, \$196,773.

5-12

Tex., Brady—D. M. Wilson has contract for 11 blocks street paving.

Tex., Corpus Christi—City, P. G. Lovenskiold, Mayor, let contract to Smith Bros., American National Bank Bldg., Dallas, at \$57,516, to pave Waco and Elizabeth St., Park Ave.

Tex., Galveston—City let contract to H. J. Hetkes, Security Bldg., at \$11,249, for about 16,200 sq. yd. resurfacing, brick pavement, with 1-in. cold rock asphalt.

Tex., Houston—Horton & Horton, 3201 McKinley Ave., has contract at \$1.27½ per ton for \$5000 and at \$1.27¼ per ton for 5000 tons shell; H. L. Washburn, Harris County Auditor.

Tex., Merkel—City, Pauline Johnson, Sec., let contract to Panhandle Construction Co., Lubbock, at \$61,753, for 2½-in. brick on 5-in. concrete base, street paving.

5-12

Tex., Sweetwater—City, John L. Ford, Mayor, let contract to W. E. Burke, at about \$30,000 to pave with asphalt macadam on waterbound macadam base, N. Fourth St.

W. Va., Huntington—City, Homer I. Yeich, Commr. of Streets, let contract to J. J. Gillespie, 165 Woodland Drive, at \$93,000, for 11,500 lin. ft. 40-ft. wide paving, on Fifth Ave., Twenty-second to Main St., Guvandotte.

5-19

W. Va., Huntington—City, W. E. Neal, Mayor, let contract to Harrison & Dean, Inc., 2840 Third St., to grade, curb and pave Twelfth St.

4-28

W. Va., Wheeling—Ohio County Commrs., John M. Garden, Pres., let contract to H. L. Seabright Co., 70 43rd St., at \$21,717, for 900-ft. 34 and 44 ft. wide 10-in. reinforced concrete paving, Tenth St. Connection to Memorial Blvd.

6-2

W. Va., Weston—Frank Girigilliana and Louis Cots have contract to improve and pave with concrete section of West Second and Depot Sts.

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—City Comm. let following contracts for sewers: E. H. Reeder Construction Co., at \$148,000, for Graymont stormsewer; J. J. Godard, 436 Powell St., at \$8185, for sanitary sewer, Mechanicsville, Ensley; A. H. Dimijan, Woodward Bldg., for Eighty-fifth St. and Second Ave. N. Twenty-eighth St. and Seventeenth Ave. 4-28

Ark., McGehee—See Roads, Streets, Paving.

Fla., Haines City—City, Jess P. Ferrill, Mgr., receives bids June 29 for sewers. See Want Section—Bids Asked.

Fla., Jacksonville—City Comm., Frank H. Owen, Chrm., receives bids June 13 for materials and drains. See Want Section—Bids Asked.

Fla., Panama City—Frank Mosely, low bidder at \$12,415 for sanitary sewers.

Ga., Moultrie—City plans issuing sewer and water bonds. See Financial News—Bond Issues Proposed.

Miss., Kosciusko—City receives bids June 21 for 23,500 ft. 12-in. sewers, 8200 ft. 10-in.

sewer, 210 manholes, 18 flush tanks, 1400 Ys and Ts, pumping plant and pumping outfit, vitrified clay sewer pipe; Massena L. Culley, Conslt. Engr., First National Bank Bldg., Jackson, Miss.

N. C., Charlotte—City Comm., let following contracts for improving Sugaw Creek sewerage disposal plant: Cast iron pipe and fittings, Glamorgan Pipe & Foundry Co., Lynchburg, Va., at \$13,905; valves, Grinnell Co., at \$4,173; venturi meters, Grinnell Co., Charlotte, at \$3,580; general contract to A. H. Guion & Co., Gastonia, at \$167,677; sewage ejectors, Nash Engineering Co., South Norwalk, Conn., at \$2,050; centrifugal motor driven pump, Nash Engineering Co., at \$534; sewage pumping equipment, DeLaval Steam Turbine Co., Trenton, N. J., at \$6,762 and for air compressors at \$21,720; switchboard, Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., at \$4,736; gas holder, R. D. Cole Mfg. Co., Newman, Ga., at \$7,498; sludge collecting mechanism at \$11,000, to Link-Belt Co., Chicago, and at \$5,305 for rotary sludge collection mechanism; Oliver Continuous Filter Co., San Francisco, Cal., for sludge pressing equipment, at \$31,140.

5-12

Okla., Enid—City opens bids about June 15 for sewers. See Want Section—Bids asked.

Okla., Konawa—See Water Works.

Okla., Seminole—City, Dr. J. N. Harker, Mayor, will soon let contract for water and sewer extension.

5-26

S. C., Greenville—Greater Greenville Sewerage Comm. receives bids June 14 for disposal plant on Reedy River, cost \$275,000; will open bids same day for laying 6 mile section of trunk line of 24-in. main and 3600 ft. of 18-in. main, cost \$165,000; plans and specifications from J. F. Sirrine & Co., Engrs., Greenville.

5-26

Tex., Alamo Heights, P. O. San Antonio—Col. S. F. Crecelius, 201 Torcide Drive, San Antonio, reported, prepare plans for water works and sanitary sewers.

5-19

Tex., Arlington—City receives bids June 14 for sewers. See Want Section—Bids Asked.

Tex., Houston—City, G. F. Fugate, Asst. City Engr., reported, plans \$200,000 enlargement of sewage disposal plant on Ship Channel.

Tex., La Feria—See Roads, Streets, Paving.

Tex., Palestine—Palestine Sewer Co., reported, let contract to A. M. Burns for sewer on Howard Ave. and Illinois St.

Tex., Plainview—City voted sewer and water works bonds. See Financial News—Bond Issues Proposed.

Tex., San Benito—See Miscellaneous Construction.

Va., Culpeper—City receives bids June 20 for sanitary sewer extensions. See Want Section—Bids Asked.

Va., Norfolk—City, reported, authorized construction of \$22,200 sewer system at Glenwood Park; I. Walke Truxton, Mgr.

Va., Roanoke—City votes July 12 on sewer bonds. See Financial News—Bond Issues Proposed.

W. Va., Huntington—City, W. E. Neal, Mayor, let contract to Henry McNichols and W. F. Kahler, 101 Richmond St., for sewers.

W. Va., Huntington—W. F. Kahler, 101 Richmond St., reported, low bidder for Cole St. sewerage in Altizer addition.

Telephone Systems

Ala., Andalusia—Standard Telephone Co., Troy, reported, acquired equipment of Standard Telephone Co. of Andalusia.

Miss., Philadelphia—Neshoba County Telephone System, J. W. Henry, Mgr., will erect addition; no materials or supplies contracted for yet; plans call for about 4 miles cable, hardware, etc.; new main, etc. 6-2

Mo., Kansas City—Southwestern Bell Telephone Co., 11th and Oak Sts., will erect steel, frame, reinforced concrete building; Hoyt, Price and Barnes, Archts. See Buildings Proposed—Bank and Office Building.

Oklahoma—True, Webber & Co., Chicago, and Hale, Waters & Co., Boston, Mass., offering \$800,000 one-year 5% collateral trust gold notes of General Telephone Co.; company operates system in Oklahoma, Missouri and Tennessee; proceeds will be used to pay in full part for acquisition pledged under this issue and for other corporate purposes.

Ten., Knoxville—People's Telephone and Telegraph Co., under ownership of General Telephone Co., reported, plans expending \$500,000 for improvements, including automatic dialing telephone equipment; erection of addition to present plant on Thomas Ave.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Tenn., Rutledge—Rutledge Telephone Exchange, O. B. Smith, Mgr., reported, acquired telephone line from Joppa to Blainville.

Textile Mills

Ala., Opp—Opp Cotton Mills, T. E. Hubbard, Sec., will erect sheeting plant; 106x215 ft.; brick main mill building; cost \$50,000; cost of machinery \$100,000; daily capacity 17,000 yds.; install 5000 spindles and 160 looms; Robert & Co., Atlanta Ga., Engrs., Bona Allen Bldg. 6-2

N. C., Burlington—North Carolina Silk Mills, Inc., capital \$500,000, incorporated; J. Spencer Love, Eugene Holt and A. Glenn Holt; erecting mill for weaving silk, rayon and mercerized mixtures; brick; 1-story with loading platform, railroad sidings; 112x170 ft.; install 100 to 150 silk looms; erect employees' homes; suitable preparatory and finishing equipment will be part of initial installation.

N. C., Kinston—Birch Douglas, reported, acquired for client the Kinston Cotton Mills; will incorporate company and operate.

Okla., Guthrie—D. C. Collins, representing Charles Harding, of Harding and Tilton, New York, acquired Pioneer Mills; will improve and remodel; in operation July 1.

S. C., Calhoun Falls—See Land Development.

S. C., Newberry—Oakland Cotton Mills are extending village, erecting houses; E. S. Draper, Landscape Archt. and Engr., Charlotte, N. C., in charge of grading streets, house sites, etc.

S. C., Newberry—Kendall Mills, Inc., Boston, Mass., advises, regarding Oakland Cotton Mills: "Are purchasing 640 40 in. Draper looms from Draper Co., at Hopedale; only alteration work necessary, in view of fact that these new looms will replace old ones is some change in electric wiring; work being handled by Harrison-Wright Co., Charlotte, N. C.; motors for looms are supplied by General Electric Co., Schenectady, N. Y."

S. C., Union—Dainty Maid Silk Mills, capital \$150,000, incorporated; R. L. McNally, W. S. Nicholson, Emslie Nicholson; leased building; will install machinery; equipped to use silk imported from Japan and also rayon.

Tenn., Chattanooga—Stockholders of Crystal Springs Bleachery Co., Chickamauga, Ga., meet June 15 to consider proposal of bleachery to company to be organized by D. A. Jewell with \$2,000,000 capital; \$1,000,000 preferred and \$1,000,000 common.

Tenn., Cleveland—Debonair Hosiery Mills, reported, let contract to R. E. White and J. D. Barnes to erect addition to plant; increase floor space by 4500 sq. ft.; cost \$15,000.

Tenn., Knoxville—Knoxville Knitting Mills, Gill St. and Southern Ry., will erect 1 story, frame addition; cost \$13,000.

Tenn., Morristown—Morristown Knitting Mills, Inc., capital \$25,000, incorporated; H. F. Trobaugh, J. B. Neill, J. Hallman Bell; manufacture infants' hose; production in 60 days.

Tex., Fort Worth—Worth Mills of Fort Worth, incorporated under laws of Massachusetts, to take over and operate cotton mill, capital \$1,200,000; manufacture cord tire fabrics; Charles L. Harding, Pres., 77 Franklin St., Boston; Don T. Towers, V. P.

Va., Buena Vista—Buena Vista Silk Mills, reported, sell \$50,000 bonds for additional unit.

Va., Covington—Stoughton & Mathers, Archts. and Builders, reported, have contract for addition to Schwarzenbach-Huber Co.'s silk mill; install 50 looms. 4-21

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Ft. Payne—Alabama Water Service Co., reported, acquired properties of Ft. Payne Utilities Co., including Fort Payne, Valley Head, Center, Leesburg, etc.; plan establishing water works at Collinsville.

Ga., Acworth—Georgia Power Co., Atlanta, reported, securing options on Etowah River and Allatoona Creek; build power dam; from storage reservoirs.

Ga., Albany—City, C. Q. Wright, Mgr., let contract to Layne Southeastern Co., 520 First National Bank Bldg., St. Petersburg, Fla., at \$20,000 for installing Layne vertical

turbine pumps and vertical motor for delivering water from well into surface reservoir. 5-26

Ga., Americus—City voted water works bonds. See Financial News—Bond Issues Proposed. 5-12

Ga., Moultrie—City plans issuing \$25,000 bonds for water mains and sewers. See Financial News—Bond Issues Proposed.

Ga., Waycross—Widemann & Singleton, Consit. Engrs., Atlanta, reported, have completed water and sewer survey calling for \$135,000 for sewers, \$225,000 for sewage disposal plant and \$100,000 for water distribution extension. 2-10

Md., Baltimore—Board of Awards, receives bids June 15 for water works improvements. See Want Section—Bids Asked.

Md., Hagerstown—Stein Bros. & Boyce, Mercantile Trust & Deposit Co., Baker, Watts & Co., The Continental Co., Mackubin, Goodrich & Co., Nelson Cook & Co., Strother, Brodgen & Co., and Townsend, Scott & Co., all Baltimore, offering \$1,000,000 4% water bonds, series 4 of City of Hagerstown.

Miss., Tyertown—City considering proposition of Ball Bros to install 100,000 concrete reservoir and two 750-gal. centrifugal pumps.

Mo., Butler—City, J. E. Williams, Mayor, receives bids June 20 for water works extension. See Want Section—Bids Asked. 6-2

Mo., St. Louis—Board of Public Service receives bids June 21 for reservoir covers. See Want Section—Bids Asked.

N. C., Burlington—City let contract to J. Frank Mitchell, at \$40,408, for dam on Stony Creek, for water works; 30 ft. high with 5-ft. headwalls, concrete; to Kiker & Yount, Reidsville, for clearing 150 acres of land that will be used in storage of 500,000-000 gals. water to provide 500-day supply; contract for materials not let; construction to begin immediately; completion by Dec. A. C. Lineberg, City Engr. 5-26

N. C., Mars Hill—Board of Alderman receives bids June 11 for water line. See Want Section—Bids Asked.

N. C., Raleigh—City, Mayor Culbreth, reported, receives bids soon for pumping station at Rand Mills' reservoir.

Okla., Brinkman—City, W. D. Hill, Chairman Town Board, advises: "Don't intend putting in water works now." 6-2

Okla., Konawa—City, J. P. Ford, Mayor, will extend water work system, install pumping plant and new sewerage system; \$78,000 available; White Neck, Engr., Oklahoma City. 5-26

Okla., Oklahoma City—City, E. M. Fry, Mgr., let contract to Mueller Co., Decatur, Ill., for brass goods and copper pipe; Crane Co., Chicago, Ill., for lead pipes and fittings; B. and B. Machine and Iron Works, 801 S. Broadway, for meter boxes, rings and covers, for water department.

Okla., Seminole—See Sewer Construction. S. C., Charleston—Comms. of Public Works, Julius H. Jahnz, Chrm., reported, plans 5,000,000 gal. a day relief water supply from Edisto river; cost \$30,000; J. W. Ledoux, Hydraulic Engr., 112 N. Broad St., Philadelphia, Pa., James E. Gibson, City Engr.

S. C., Pickens—Comms. of Public Work, plan installing filtering plant.

Tenn., Millington—City voted \$10,000 bonds to install water works; construction begin June 15.

Tex., Alamo Heights, P. O. San Antonio—See Sewer Construction.

Tex., Abilene—City, reported, let contract to Womack Construction Co., Sherman, for earthen dam 4500 ft. long across Cedar Creek; 52 ft. high; spillway 300 ft. long at east end of dam; 3,000,000,000-gal. reservoir.

Tex., Crosbyton—City voted \$25,000 water work bonds; Address the Mayor. 5-19

Tex., Houston—Pilling & Foundation Co., Bankers Mortgage Bldg., reported, has contract for water main.

Tex., Plainview—See Sewer Construction.

Tex., Poteet—Town A. J. Goodfellow, Mayor, interested in having firm install water works. See Want Section—Machinery and Supplies.

Va., Hopewell—Layne Atlantic Co., reported, has contract for drilling a well 400 ft. deep; cost \$25,000; later plan 4 additional wells, making total cost of \$125,000. (This is first contract in Atmosphere Nitrogen Corp. development.)

Va., Norfolk—Director of Public Works, W. H. Taylor, Third, let contract to General Construction Co., for laying water mains along Virginia Beach Blvd.

Va., Norton—The J. N. Chester Engineers, Union Bank Bldg., Pittsburgh, Pa., submitted estimate of cost of dam construction on Benges Branch to supply water to city; estimated cost \$132,300. 4-23

Va.-Tenn., Bristol—City, P. A. Goodwyn, Mayor, reported, plans either acquiring Bristol, Tenn. interest in Clear Creek and Frank Preston supplies or construct filtration plant and reservoir.

Woodworking Plants

Ga., Macon—Muecke & Sons Co., 614 New St., will erect furniture plant on 17 acre site on Pio Nono Ave; Cost \$50,000.

La., Monroe—Ouachita Veneer Co., capital \$50,000, incorporated; Max Brown, J. H. Nelson, B. K. Brown, Ruston.

N. C., Winton—Winton Heading Co., M. R. Herring, Mgr., will rebuild burned slack barrel heading mill, daily output 4000 sets; will rebuild burned machinery when possible; 40x150 ft. dry kilns and other units as needed; wood and brick; galvanized roof; cost about \$15,000; will do work with rough labor or local machinist; will be in operation in 60 days. See Want Section—Machinery and Supplies.

S. C., Union—Union Novelty Co., incorporated; B. F. Kennedy, Bank of Union; Henry Cheshire.

Tenn., Nashville—Hol-fast Bedlock Co., capital \$10,000, incorporated; John L. Dillard, 1206 Russell St., John W. Cummin, Ruben C. Owens; manufacture safety devices, locks and articles used in making furniture.

Tenn., Paris—Stanley and Fincher, Sparta, will erect dogwood shuttle plant; metal covered shed 30x60 ft.; move machinery from Murray, Ky.

Tex., Marshall—Marshall Wood Products Co., N. P. Turner, Sec., will erect building 48x200 ft. for machinery building, 48x150 ft. for warehouse, both of frame construction with sheet iron sides and roof; all machinery will be motor driven, Yates-American Machine Co., Beloit, Wis., Mch. Contrs. 5-12

Tex., Texarkana—Period Furniture Co., capital \$20,000, incorporated; A. C. Stuart, H. L. Vaughan, J. A. Dennington.

Tex., Waco—Hamilton Furniture Co., Inc., 815 Austin Ave., increased capital \$3,000 to \$15,000.

FIRE DAMAGE

Ala., Cullman—Warehouse of J. Mackentepe; loss \$30,000.

Ala., Red Bay—Saw and planing mill of Little Bear Saw Mill Co.; loss \$20,000.

Ark., Helena—Jackson Motor Co.'s garage; loss \$8000.

Fla., Umatilla—Apartment hotel of Ira Rice; loss \$30,000.

Ga., Baconton—R. A. Daniels' residence.

Ga., Folkston—Arnold Hotel Building; loss \$40,000.

Ga., Sylvester—Seed House of Planters Oil Co.; loss \$20,000.

Ky., Russell—Mann-Burton apartments on Etna St. Address Propr.

La., Belcher—E. F. Hill's grocery, Snyder Willer general store, Planters Mercantile Co., Texas and Pacific railway station; loss \$40,000.

La., New Orleans—Federico Macaroni Mfg. Co.'s plant, Chartres and St. Phillips Sts.; loss \$75,000.

La., Scotland—Joe Valle's theater, Haines Store, W. P. Kemp's store and other buildings; loss \$20,000.

Md., Pen-Mar (P. O. Pen-Mar, Pa.)—Imperial Hotel building owned by Franklin J. Ressler, Waynesboro, Pa.; loss \$15,000.

Miss., Ellisville—Ellisville Yellow Pine Co. dry kiln; loss \$6000.

Miss., Gulfport—Department store owned by Charles and Justin Farmer; loss \$40,000.

Miss., Itta Bena—Mrs. M. E. Mahoney's dwelling, occupied by J. P. Coleman.

Miss., McCoo—Stores of Charles C. Fancher, Taylor Bros. and J. A. Landrum; loss \$65,000.

Miss., Vicksburg—Barnes Planing Mill; loss \$10,000.

Mo., Sparta—Canning plant owned by John Greer, Marshfield.

N. C., Durham—Gladstein's store on Main St.; loss \$15,000.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

N. C., Morehead City—Woodland Hotel; address The Propr.

N. C., Wrightville Sound—Babies' Hospital; loss \$35,000. Address Supt.

Okla., Oklahoma City—Roundhouse of Chicago, Rock Island & Pacific Ry. Co.

S. C., Columbia—Mimnaugh's department store, Brabham Seed Co., Lorick and Lowrance warehouse, and garage building occupied by Repossessed Automobile Garage; loss \$35,000.

S. C., Sumter—Residences of H. W. Cutino, Mrs. A. A. Bradham, Saml. Sanders, Mrs. Mary B. Warren and Davis Morise; loss about \$60,000.

Tenn., Murfreesboro—Ridley & Lawrence will rebuild Davis Garage, recently burned, on Nashville Pike.

Tex., Hubbard—Smith's Cafe, Roden & Bounds barber shop, Nolan Murphy's tailor shop, grocery stores of Rufus Jones and Wright & Priddy; loss \$40,000.

Tex., Olney—Warehouse and office building of Humble Pipe Line Co.; loss \$30,000.

Tex., Putman—Julian Motor Co.; loss \$20,000.

W. Va., Clarksburg—Garage building cor. Traders and Sehon Alleys. Address The Mayor.

concrete foundation, struct. and misc. steel, terra cotta, Barrett specification roof; separate bids for electric wiring, finished hardware, electric or gas fixtures, gas stoves and inscriptions on bronze; Nathan Kohlman, Archt., Pere Marquette Bldg.; following contractors estimating: R. P. Farnsworth & Co., Canal-Commercial Bldg.; Lionel F. Favret, Louisiana Bldg.; Jos. Frombers, Inc., Title Guarantee Bldg.; O. M. Gwin Construction Co., Union Indemnity Bldg.; J. A. Petty & Sons, Inc., Godchaux Bldg.; G. E. & E. E. Reimann, Canal-Commercial Bldg.; L. J. Woodworth, 343 Carondelet St.; Gervais F. Favrot, Balter Bldg. 6-2

Miss., Laurel—D. A. Matison is chairman of committee to erect Egyptian type synagogue; stucco, auditorium and gallery seat 200; kitchen, heating system.

Miss., Quitman—Methodist Church, Rev. J. A. Moore, Pastor, plans \$10,000 to \$15,000 brick veneer building; call for bids in few days.

Mo., Kansas City—Central Bible Hall, 3032 Main St., Dr. Walter L. Wilson, care Baker-Lockwood Mfg. Co., Chmn., Board of Trustees, erect building, Spring St.; stone and concrete; Sunday school rooms in basement, auditorium, seat 675 above; rest home for missionaries and Bible training school units later; E. O. Brostrom, Archt., 602 Reliance Bldg.

Mo., Kansas City—Calvary Lutheran Church erect first unit of English-Gothic type building, 70th Street Terrace and Brookside Rd. Address The Pastor.

N. C., Charlotte—Duckworth Memorial Methodist Church receives bids June 14 for building, Grandin Rd. and Fourth St., Wesley Heights; brick and stone, ordinary type, Sunday school 3 stories, 44x119 ft., wood floors, brick and concrete foundation, slate roof, cost \$50,000; Louis H. Asbury, Archt., 1514 E. Fourth St. 5-19

Tenn., Johnson City—First M. E. Church, Henry C. Black, Chmn., Bldg. Comm., plans \$125,000 building, Spring and Maple Sts.; pews, windows, etc., from present structure.

Tenn., Knoxville—Gill Street Seventh Day Adventist Church, Rev. F. C. Webster, Pastor, plans building, Luttrell St. and Lovenia

Tenn., Nashville—Grandview Baptist Church plans brick and stone building; 1 story and basement. Address The Pastor.

Tex., Borger—First Christian Church has broken ground for \$35,000 building. Address The Pastor.

Tex., Brady—First Christian Church opens bids June 10 for stucco building; cost \$30,000, rein. concrete foundation, tin roof; furnishings, equipment, etc., \$8000; L. Harrington Co., Archt.-Engr., Builders Exchange Bldg., San Antonio. Address W. W. Wharton, P. O. Box 825. See Want Section—Building Materials and Equipment. 4-28

Tex., Cameron—Roman Catholic Church receives bids June 12 for brick, concrete and stone trim building; cost \$30,000; 1 story; Leo M. J. Dielmann, Archt., 306 E. Commerce St., San Antonio. 5-26

Tex., Crystal City—Methodist Church erect \$10,000 semi-fireproof basement unit of building; Ralph H. Cameron, Archt., City Nat. Bank Bldg., San Antonio.

Tex., Fort Worth—Hemphill Heights Church of Christ, 719 Fogg St., erect Sunday school and baptistry addition. Address The Pastor.

Tex., Houston—Bishop C. E. Byrne, 1402 J St., Galveston diocese, erect church and school for negroes, Ranger and Noble Sts.

Tex., Houston Heights, Houston—First Baptist Church erect \$30,000 brick and hollow tile superstructure, Ninth and Harvard Sts.; basement completed; C. N. Nelson, Archt., 406 Third St., 1017 1/2 Eagle St.; bids in.

Tex., New Boston—Baptist Church erect \$15,000 brick and concrete building. Address The Pastor.

Tex., San Antonio—Grace E. L. Church, H. C. Thornton, Chmn., Building Comm., receives bids July 6 for brick, concrete and cast stone English type church and Sunday school, Avenue E and Fifth St.; cost \$100,000, semi-fireproof, auditorium and basement, about 50x140 ft., wood floors, rein. concrete foundation, tile roof; furnishings, equipment, etc., \$25,000; Ralph H. Cameron, Archt., City National Bank Bldg.; W. E. Simpson & Co., Engrs., Nat. Bank of Commerce Bldg. 3-31

Va., Norfolk—Park Place Baptist Church, Robt. Ford, Chmn., Bldg. Comm., has opened bids for Sunday school; brick, stone trim, 3 stories and basement, 38 classrooms, 7 departmental auditoriums; large auditorium seat 1300; cost \$50,000; Rudolph, Cooke-Van Leeuwen, Archts., Arcade Bldg. 11-18-26

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Fla., Fort Lauderdale—American Legion Building Comm., Fred M. Wertz, Chmn., erect \$30,000 clubhouse after plans by C. Hobart Sherwood, 226 Bryan St.; rein. concrete and hollow tile, 2 stories, 70x120 ft., cement, tile and oak floors, rein. concrete foundation, tile roof; furnishings, equipment, etc., \$5000; start plans June 8. Address Archt. 3-3

Miss., Clarksdale—Benevolent Protective Order of Elks, R. E. Montgomery, Exalted Ruler, plan to start work soon on \$12,000 clubhouse, Moon Lake; 2 stories and basement; dining room, sleeping quarters. 6-17-26

Mo., Poplar Bluff—Benevolent Protective Order of Elks, R. W. Peterson, Sec., plans to rebuild lodge building, Second and Poplar Sts., damaged by tornado; cost \$25,000.

W. Va., Martinsburg—Washington Lodge No. 1, K. of P., considers purchasing or erecting lodge building.

Bank and Office

Ala., Ensley—Brooke B. Burnham, Archt., 1921 Age-Herald Bldg., Birmingham, advises plans for Ramsey building just started and no contracts let; 10 stories, about 87x70 ft.; to be erected by Erskine Ramsay and Carr McCormack Estate; E. W. Brunnell, Mech. Engr., 510 Amer. Trust Bldg.; electrical and struct. engineering by office Archt. 3-31

D. C., Washington—Union Trust Co., Edw. J. Stellwagen, Pres., receives bids June 17 for \$750,000 addition; block granite, nine stories and basement, fluted columns on 9 stories and basement, fluted columns on fourth to eighth floors; marble columns, inlaid marble floor and bronze screens in banking room; ornamental ceiling and rubber floors in officers' rooms and banking departments; vault, elevator from basement to third floor for banking section; 36 offices on upper floors; Marsh & Peters, 1305 F St. N. W., and A. B. Mullett & Co., Union Tr. Bldg., Archts. 2-24

Ga., Moultrie—Fidelity Building and Loan Assn., 114 N. Main St., Park Harper, Sec., plans erecting building later.

Md., Baltimore—Jerome Sloman, Union Trust Bldg., purchased 5-story Loeb Bldg., 15-17 S. Gay St.; remodel and name Seaboard Bldg.

Mo., Kansas City—Southwestern Bell Telephone Co., 11th and Oak Sts., E. D. Nims, Pres., St. Louis, opens bids Aug. 15 for 13 additional stories to 14-story steel frame, concrete floor and terra cotta exterior administration and equipment building, 125x96 ft., cost \$1,062,000, new elevators, new heating system, plumbing and electric wiring, metal windows throughout addition; Holt, Price & Barnes, Archts., Davidson Bldg., Kansas City; I. R. Timlin, Asso. Archt., Telephone Bldg., St. Louis. 6-2

Mo., St. Louis—F. A. Ludewig & Co., Archts., 509 Dickmann Bldg., have drawn plans for \$180,000 office building; fireproof, brick and rein. concrete, 6 stories and basement, 40x150 ft., Bedford stone trim, composition roof, terrace or tile floors, vapor, heat, 2 passenger elevators.

Okla., Tulsa—Exchange National Bank & Trust Co. having plans drawn by Weary & Alford Co., 1923 Calumet Ave., Chicago, Ill., for \$1,700,000 bank and office building adjoining present structure; struct. steel, 12 and 25 stories, 60x135 ft., with 80x50-ft. wing, maple floors, concrete caisson foundation, composition and tile roofs; furnishings, equipment, etc., \$300,000; wrecking building on site; engineering by Archt.; Wm. H.

Horster, Constr. Supervisor. Address Owner and Archts. See Want Section—Building Materials and Equipment. 6-2

Tenn., Johnson City—Sam R. Sells erect \$200,000 textile office building, Roan and Main Sts.; 5 stories.

Tenn., Memphis—E. D. Hazelhurst and H. C. Nail, Jr., care Nail & Hazelhurst, 69 Madison St., and W. L. Oates, care Farnsworth-Evans Co., Cotton Exchange Bldg., erect 3-story building, 96 E. Front St.; 25x100 ft.; also remodel and add fourth floor to adjoining building.

Tex., McAllen—Chamber of Commerce, W. R. McGarrity, Sec., opens bids about June 15 for building; cost \$10,000 to \$15,000; 1-story, Spanish type; Harvey P. Smith, Archt., Nat. Bank of Commerce Bldg., San Antonio. 4-7

Churches

Ala., Birmingham—West End Methodist Church, C. A. Bagwell, 501 Helen St., member Bldg. Comm., erect \$20,000 Sunday school annex; accommodate 600; Geo. Gerhed, Archt.

D. C., Washington—St. Paul's English Lutheran Church having plans drawn by Frohman, Robb & Little, 140 Boylston St., Boston, Mass., and Washington Cathedral, Washington, for \$550,000 church and parish house, Connecticut Ave. and Ellicott St. N. W.; rein. concrete, brick and stone, 2 and 4 stories, 170x87 ft. and 168x68 ft., reinforced concrete floors, concrete foundation, concrete, wood and slate roofs; J. R. Worcester & Co., Engrs., Boston; date of bids not determined. See Want Section—Building Materials and Equipment. 1-20

Fla., LaBelle—Baptist Church erect building. Address The Pastor.

Ky., Ashland—First Church of the Nazarene, Greenup Ave., Rev. R. J. Kiefer, Pastor, plans brick building, 22nd St. and Bath Ave.

La., Alexandria—First M. E. Church South has low bid at \$117,932 from Sandquist & Snow, Inc., for Sunday school; C. Errol Barron, Archt., Haas Bldg. 5-12

La., Algiers, New Orleans—Holy Name of Mary R. C. Church have plans ready about 60 days for bids on steel frame Gothic type building; cost \$150,000, brick, terra cotta, stone trim, slate roof, concrete and wood floors, art glass windows; Alex. W. Norman, Archt., Cotton Exchange Bldg., New Orleans. 3-24

La., Denham Springs—Denham Springs Baptist Church plans \$15,000 building. Address The Pastor.

La., New Orleans—First Evangelical Church, Rev. A. H. Becker, Pastor, have plans ready about 2 weeks for bids on brick and stone trim auditorium and gymnasium, 1-story frame and stucco parsonage, janitor's quarters and 5-room addition to Sunday school, Carondelet and St. Mary's Sts.; Jones, Roessle & Olschner, Archts., Maison Blanche Bldg. 3-17

La., New Orleans—Temple Sinai Congregation, Jacob Bloom, Chmn., Bldg. Comm., rejected bids for \$250,000 synagogue; will have revised plans out in 45 days; Emil Weil, Inc., Hibernia Bldg.; Moise H. Goldstein, Hibernia Bldg., and Weiss, Dreyfous & Seifert, Maison Blanche Bldg., Asso. Archts. 5-26

La., New Orleans—Touro Congregation receives bids June 15 for community center and educational building, Gen. Pershing St. and St. Charles Ave.; cost \$50,000; 2 stories,

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

City and County

Ala., Athens—City plans city hall; bids in. Address City Council.

Ark., Fort Smith—City, J. H. Parker, Mayor, considers municipal auditorium.

Ga., Americus—Fire Equipment—City voted bonds for fire equipment. See Financial News—Bond Issues Proposed. 5-12

Ky., Hopkinsville—Planters Bank & Trust Co., A. H. Eckles, Pres., is acting as trustee for proposed city and county public building and armory, Main and Weber Sts., adjoining courthouse; 135x152 ft.; contain theater to seat 1200, leased to Hopkinsville Amusement Co., to be incorporated at \$15,000; Trustee to let bids through John T. Waller, Archt., about July 1.

Ky., Owensboro—Davless County, R. L. McFarland, Judge, consider rebuilding courthouse burned at \$10,000 loss.

Mo., Columbia—City, J. S. Bicknell, Clk., may call election on city hall bonds.

Mo., St. Louis—Board of Police Commissioners, Room 42, Police Headquarters Bldg., 208 S. 12th St., Allen C. Orrick, Pres., receives bids June 28 for Police Headquarters Bldg., City Block 216; cost \$1,000,000 to \$1,500,000, gray Bedford stone, 219x138 ft., 6 stories, including mezzanine, basement connected to present city jail by underground tunnel; Mauran, Russell & Crowell, Archts., Chemical Bldg.; plans, specifications and Chemical Bldg.; plans, specifications, form of contract from office Police Board. 9-23

Mo., St. Louis—Board of Public Service has low bid for \$900,000 municipal service building from McCormack-Combs Construction Co., Columbia Bldg.; Study & Farrar, Archts., 1367 Arcade Bldg.; Martin Engineering Co., Engr., Syndicate Trust Bldg. 5-26

N. C., Farmville—City erect \$30,000 brick municipal building; 2 stories, 42x81 ft., concrete and wood floors, composition roof; Benton & Benton, Archts., Fidelity Bldg., Wilson, drawing plans.

Okla., Purcell—McClain County voted \$80,000 courthouse and jail bonds. Address County Commrs. 5-19

Tex., Amarillo—City, Jeff D. Bartlett, City Mgr., has low bid at about \$25,000 from H. T. Apple, 404 N. Fillmore St., for city hall addition; Bank Jones, City Engr. 5-19

Tex., Channing—Hartley County Board of Commrs., W. R. Slaton, County Judge, receives bids June 13 for addition to courthouse; fireproof, 1-story, steel, rein. concrete, rein. concrete slabs and floors, metal windows, vault; cost \$15,000; Will H. Lightfoot, Archt., 47 Smith Bldg., Amarillo. 4-19

Tex., Fort Worth—Commissioners' Court, Sandy Wall, Commr., install elevator in courthouse.

Tex., Harrisburg—City erect 1-story tile and stucco bungalow type fire station; cost \$20,000; L. A. Glover, Archt., Binz Bldg., Houston. 4-7

Tex., Liberty—Liberty County Board of Commrs., C. R. Wilson, County Judge, selected Cornell G. Curtis, 1632 Hawthorne St., Houston, as architect for \$250,000 courthouse; rein. concrete and steel, face brick, stone trim, 3 stories, about 80x125 ft., built-up or tar and gravel roof, steel frames and sash, tile floors, marble, ornamental iron stairs, new equipment and furniture, private lighting plant. See Want Section—Building Materials and Equipment. 4-14

Tex., Mercedes—City Commission receives bids June 10 for city hall-fire station; brick, stone and rein. concrete, 2 stories; R. Newell Waters, Weslaco, and Ralph H. Cameron, City Nat. Bk. Bldg., San Antonio, Archt. 5-5

Tex., Perryton—City erect \$10,000 brick office and fire station building; 1 story, 45x65 ft., composition fireproof floors, concrete foundation, concrete and oak roof; furnishings, equipment, etc., \$1200. Address A. B. McAfee, Jr. See Want Section—Building Materials and Equipment.

Tex., Sinton—San Patricio County Board of Commrs. receives bids June 13 for courthouse and jail; cost \$125,000; rein. concrete, brick, cut stone, stucco and steel; 2 stories and basement, with 1-story jail on roof of main building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 5-12

Tex., Sweetwater—Nolan County Board of Commrs., A. S. Mauzey, County Judge, having plans drawn by Page Bros., Austin Nat. Bank Bldg., Austin, to remodel courthouse; install Commrs., A. S. Mauzey, County Judge, have \$33,500; bids opened June 14.

Va., Roanoke—City votes July 12 on \$1,300,000 bonds, including \$100,000 for fire stations. Address City Council. 5-12

Dwellings

Ala., Birmingham—Mrs. Zoe and Elizabeth La Forge, Montrose, erect residence, Leed Highway and Pineridge Rd.; brick veneer, 2 stories, composition roof, furnace heat; Denham, Van Keuren & Denham, Archts., Age-Herald Bldg.

Ala., Birmingham—V. O. Terry, 1409 S. 24th St., erect \$10,000 residence, S. Lanard Rd. near Aberdeen St.; brick veneer, 2 stories, composition roof; Paul Bros., Contrs., Hollywood.

Ala., Birmingham—Meadows & Creedon erect \$15,000 dwelling, Windsor Circle, outh; also three \$7500 dwellings, Hollywood.

Ala., Hollywood—V. E. Cates, 1536 Druid Hill Drive, erect hollow tile and stucco residence; 1 story, tile roof, furnace heat; J. E. Salie, Archt., 2223 Age-Herald Bldg., Birmingham.

Ala., Montgomery—F. P. Morgan, 117 S. Decatur St., erect brick veneer residence, Gilmer Ave.; 1 story, 42x60 ft.; Richard Ryan, Archt., 800 Monroe St.

Ala., Troy—Hubbard McCloud erect \$15,000 residence; brick veneer and stucco, 2 stories, composition or slate roof, hardwood floors, tile baths, steam heat; Frank J. Lockwood, Archt., 119 Adams St., Montgomery.

Ark., Camden—J. H. Morgan erect brick veneer residence; 2 stories and basement, 35x50 ft., tile roof and bath, oak floors, vapor heat; Thos. Harding, Archt., Exchange Bank Bldg., Little Rock.

Ark., Hot Springs National Park—Chas. Singer, 717 Prospect St., erect residence; Sanders & Glinocchio, Archts., Hall Bldg., Little Rock.

Ark., Rogers—Fred Humphries plans number dwellings.

D. C., Washington—Briggs Construction Co. erect \$30,000 dwelling, 1673 Myrtle St., N. W.; 2 stories, stone.

D. C., Washington—Jesse P. Crawford, Southern Bldg., erect \$15,500 residence, 2970 Albemarle St. N. W.; 2 stories, stone and concrete block.

D. C., Washington—Emma F. Hahn erect \$40,000 residence, 6036 Daniels Rd. N. W.; 2 stories, brick and tile.

D. C., Washington—W. C. & A. N. Miller, 1119 17th St. N. W., erect 4 dwellings, 4411-17-25-35 Garfield St. N. W.; 2 stories, brick; total cost \$44,500.

D. C., Washington—Alex F. Redell erect 2 frame dwellings, 2416-20 Newton St. N. W.; 2 stories; total cost \$14,000.

D. C., Washington—Geo. W. Small, 634 A St. N. E., erect 4 brick dwellings, 3625-31 Van Ness St. N. W.; 2 stories, brick; total cost \$32,000.

Fla., Monticello—T. H. Lloyd plans number dwellings and outbuildings, connection with poultry farms development.

Fla., Monticello—S. A. Martin, erect residence, overlooking Silver Lake, on 1600-acre farm near Monticello; 6-room supt.'s residence, milking barn, etc., under construction.

Fla., Monticello—Jacob Waldsberger, erect residence and barns near Monticello.

Fla., Palatka—Clendenin Eckert, New York, erect residence, 85-acre tract St. Johns River near Nassau; plans yacht basin.

Fla., St. Petersburg—A. B. Carter, 217 Fifth St. N., erect \$12,000 residence and garage, Second Ave. N., near Oak St.; 2 stories, 7 rooms, tile.

Fla., St. Petersburg—Lakewood Estates, Chas. R. Hall, Gen. Mgr., 306 Central Ave., plans 400 dwellings in country club section, Lakewood Estates; cost \$6500 to \$9500 each; total cost \$1,000,000; landscaping.

Ga., Atlanta—F. S. Patterson, 476 Morning-side Drive, erect 2 brick veneer dwellings, 1028-44-52 Amsterdam Ave., N. E.; 1 story; total cost \$21,000.

Ga., Atlanta—Paxon Land Co., Candler Bldg., erect \$10,000 brick veneer dwelling, 745 Elkmoat Drive, S. W.; 2 stories.

Ga., Fitzgerald—J. C. Register erect \$10,000 hollow tile and brick veneer bungalow, S. Main St.

Ga., Fort Valley—Mayor H. M. Copeland erect residence.

Ga., Lyons—R. H. Dewitt and W. A. Estroff plan 4 brick veneer bungalows; Mr. Dewitt will remodel dwelling into 12-room rooming house.

Ga., Macon—Dr. Jas. A. Fountain, 1309 Oglethorpe St., erect brick veneer residence, Stanislaus; 8 rooms, cost about \$12,000; Claude V. Shelverton, Archt., Grand Bldg.

La., New Orleans—G. P. Bartels, 2546 Tonti St., erect residence, Audubon St.; work probably start in summer; architect not selected.

Ga., Macon—Charles H. Yates, 707 Third St., erect brick veneer residence, Stanislaus; 8 rooms, cost about \$12,000; Claude V. Shelverton, Archt., Grand Bldg.

Ga., Savannah—E. A. McWhorter, Savannah Bank & Trust Bldg., erect brick veneer residence and garage, 44th St. near Abercorn St.; cost about \$10,000.

Ky., Henderson—W. W. Katterjohn erect \$10,000 residence; rough face brick and hollow tile, stone trim, 1 story and basement, 60x42 ft., tile and hardwood floors, hot air heat; H. E. Boyle & Co., Archts., Furniture Bldg., Evansville, Ind.

Ky., Mayfield—Edw. Gardner, First Natl. Bank Bldg., erect \$50,000 residence; stone veneer, 2 stories and basement, 85x65 ft., tile roof and bath, oak floors, steam heat; Hubert T. McGee, Archt., 801 Fidelity Bank Bldg., Memphis, Tenn.

La., New Orleans—Moise H. Goldstein, Archt., Hibernia Bldg., receiving bids for alterations and additions to frame dwelling, 1530 State St.; work includes masonry, plumbing, electric wiring, paving and drains, painting, orna. iron work, oak floors, screens, slate and composition roofing, millwork, hardware, sheet metal work, glazing, plastering, tile work; J. A. Haase, Jr., 916 Union St., estimating.

La., New Orleans—Malgrat Realty Co. receiving bids for single dwelling and garage, Belfast St., near Fern St.; 1 story, tile roof; A. S. Montz, Archt., 740 Poydras St.; following contractors estimating: J. A. Haase, Jr., 916 Union St.; J. A. O'Brien, Louisiana Bldg.; L. Delarosa, Balter Bldg.; A. C. Babin's Sons, Marine Bank Bldg.; M. Werling, 2909 St. Bernard Ave.; Glitz & Geier, 8133 Oak St.; J. M. DeFraithe, 620 State St.; P. J. Curran.

La., New Orleans—J. H. Tharp, Hibernia Bldg., erect residence, Audubon Blvd. near Clairborne Ave.; plans ready 30 days.

La., New Orleans—N. Bunol, 222 S. Salcedo St., receiving bids at office A. S. Montz, Archt., 740 Poydras St., for raised residence, Belfast St., near Fern St.; following contractors estimating: J. A. Haase, Jr., 916 Union St.; J. A. O'Brien, Louisiana Bldg.; L. Delarosa, Balter Bldg.; A. C. Babin's Sons, Marine Bank Bldg.; John M. Werling, 2909 St. Bernard Ave.

La., New Orleans—Singer Realty Co., 336 Baronne St., erect \$12,000 residence, Dryades St. near Second St.; 2 stories, 34x107 ft., composition roof, Hyman Rabinowitz, Archt., 740 Poydras St.

Md., Baltimore—Dr. John McF. Bergland, 58 W. Biddle St., erect residence, Lambeth Rd., Guilford.

Md., Baltimore—John Welsh, 11 E. Fayette St., erect 11 brick dwellings, S. W. cor. Liberty Heights and Hillside Aves.; 2 stories; total cost \$25,000.

Md., Baltimore—Lawrence Yakel, Belona and Charles St. Ave., will not erect residence as lately reported for some time. 5-26

Md., Catonsville, Baltimore—W. D. Witter erect Colonial residence, Park Drive, Summit Park.

Miss., Jackson—J. L. Moorehead erect brick veneer residence, Clinton Blvd.; 2 stories, tile roof, hardwood floors; Claude H. Lindsley, Archt., Lamar Life Bldg.

Miss., Natchez—Gerard H. Brandon receiving bids for frame and stucco residence at office Weiss, Dreyfous & Seifert, Archts., Maison Blanche Bldg., New Orleans, La.; tile roof, tile work, oak floors, garage; following contractors estimating: R. E. Bost; L. H. O'Donnel; F. A. Kettingham; Reed Bros.; Robert & Murray; H. B. Brown.

Mo., Clayton, St. Louis—Thos. B. Saum, 900 Boland Drive, erect \$22,500 residence, Moorlands Addition; 40x53 ft.

Mo., Clayton, St. Louis—Hattie Schroeder, 2036 Victor St., erect \$18,000 brick residence, Hillcrest; 40x32 ft.

Mo., Clayton, St. Louis—J. Andrew Youngmann, 4602 Gravois St. erect \$10,000 residence, Geo. Sappington Estate; brick, 50x50 ft.

Mo., Columbia—Chas. W. Furtney erect \$15,000 Colonial brick residence, East Parkway Drive, Park Hill.

Mo., Kansas City—E. A. Clarkin, 2320 Benton St., erect \$10,000 residence, 628 W. 69th Street Terrace; 2 stories, 34x30 ft., frame.

Mo., Kansas City—H. H. Gilpatrick, 443 Ward Pkwy., erect \$18,000 residence, 5750 Ward Pkwy.; 2 stories, 76x36 ft., brick; J. C. Nichols Building Dept., Contr., Meyer Blvd. and Ward Pkwy.

Mo., Kansas City—Carl A. Brand, 907 Sharp Bldg., erect dwellings, 213-15 W. Dartmouth Rd.; total cost \$10,000.

Mo., Kansas City—Conrad Realty Co., 407

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Continental Bldg., erect dwellings, 4400-02, 4404-06 Holly St.; total cost \$13,000.

Mo., Kansas City—J. D. Flory erect \$10,000 residence, 647 W. 66th Street Terrace.

Mo., Kansas City—E. A. Clarkin, 2320 Benton St., erect \$10,000 residence, 628 W. 69th Street Terrace.

Mo., Kansas City—H. H. Gilpatrick erect \$19,000 residence, 5750 Ward Pkwy.

Mo., Kansas City—Ben Goldman erect \$10,000 residence, 5727 Rockhill Rd.

Mo., Kirkwood, St. Louis—S. M. Grossman, 805 Planters Bldg., erect 7 brick and tile dwellings, Corona Park; 1 story, 26x32 ft., composition roofs, hot air heat; total cost \$33,300.

Mo., St. Louis—Anthony V. Lesser, erect English type residence, Traymore Homes, Inc.; Manske & Bartling, Archts., 410 N. Euclid St.

Mo., St. Louis—Traymore Homes Syndicate, C. H. Bayless, Pres., will finance 19 dwellings on 6-acre tract, LaDue and McKnight Rds.; Manske & Bartling, Archts.

Mo., St. Louis—F. Forbes, care F. J. Kolb, Archt., 3855 Shaw St., erect \$40,000 residence; 2 stories and basement, 55x30 ft., frame, concrete foundation, hardwood floors, shingle roof, tile bath.

Mo., St. Louis—Gill & Jackson, Archts., 526 Buder Bldg., drawing plans for \$17,000 dwelling, Bel-Nor sub-division; brick, 2 stories and basement, 32x32 ft., rubble stone foundation, oak floors, tile roof and baths, hot water heat, electric refrigerator.

Mo., St. Louis—G. H. Hargitt, Archt., 5332 Vernon Ave., ready for bids on \$35,000 dwelling.

Mo., St. Louis—E. G. Lasar, 5727 Waterman St., erect frame residence; 2 stories and basement, 62x36 ft., concrete foundation, hardwood floors, composition roof, tile bath, hot water heat; Dan Mullen, Archt., 18 N. Meramac St., Clayton.

Mo., St. Louis—E. R. Meyer, 6822 Waterman Ave., erect \$50,000 brick residence, 6226 Forsythe Blvd.; 2 stories and basement, slate roof, concrete foundation, oak and terrazzo floors; Maritz & Young, Archts., 1126 Chemical Bldg.

Mo., St. Louis—Ben Schecuter, 1935 Semple St., erect \$18,000 residence, 7136 Washington St.; brick, 2 stories and basement, 32x32 ft., slate roof, concrete and stone foundation, hardwood floors, tile bath, vapor heat, oil burner, electric refrigerator; Edw. J. Giesler Archt., 42 De Menil Bldg.

Mo., University City—S. L. Wimer, care Chas. R. Greene, Archt., 403 Buder Bldg., erect brick residence, University Hills; 2 stories and basement, 45x30 ft., terrazzo and oak floors, tile roof and baths, concrete foundation, Frigidaire, hot water heat, oil burner, incinerator.

N. C., Elizabeth City—Carolina Development Co., associated with Virginia Dare Shores, Inc., and Shores Properties, Inc., Frank Stick, Asbury Park, N. J., interested, erect 15 to 20 bungalows, Virginia Dare Shores.

Okla., Oklahoma City—L. E. Ferguson erect 2 dwellings, 1133-37 E. 16th St.; total cost about \$10,000.

Okla., Oklahoma City—G. A. Nichols, Inc., 115 N. Harvey St., erect 10 dwellings, 812-20 E. 20th, 921-27-28-31-32-36-43 East Drive, Lincoln Terrace, and 600 Culbertson Drive; total cost \$54,300.

Okla., El Reno—S. S. Macey erect \$20,000 residence; brick veneer, 2 stories and basement; Sorey & Vahlberg, Archts., Braniff Bldg., Oklahoma City.

Okla., Tulsa—Horace Anderson, erect 3 brick veneer dwellings and garages, 2416-20, 24 B. 14th St.; total cost \$11,800.

Okla., Tulsa—P. H. Bull, 705 S. Olympia St., erect \$20,000 residence near Tulsa; W. D. Blacker, Archt.

Okla., Tulsa—Arthur Gorman, Archt., Bartlesville, drawing plans for \$50,000 dwelling and garage; stucco 2 stories and basement.

S. C., Aiken—Col. Robt. R. McCormick, Editor, Chicago Tribune, Chicago, Ill., erect residence.

S. C., Pickens—Dr. J. L. Aiken erect residence, Ann St.

S. C., Pickens—Cleo Finley erect residence.

Tenn., Franklin—Dr. S. G. Oden considers rebuilding burned residence; cost \$10,000.

Tenn., Knoxville—W. B. Carringer, 409 E. Scott St., erect 4 dwellings, Oakland Ave.; 5 rooms, frame; total cost \$10,000.

Tenn., Knoxville—H. A. Mosby, erect

\$10,000 residence, Havenwood Addition; 2 stories, 10 rooms.

Tenn., Leas Springs—Leas Springs Corp., 426-27 Holston Bank Bldg., erect about 25 cottages, Leas Springs; Manley, Young & Meyer, Archts., 302 Church St.; Chas. F. Lester, Landscape Archt., General Bldg., all Knoxville. See Land Development.

Tenn., Memphis—Dr. Giles Coors, 1304 Union Ave., plans residence, Chickasaw Gardens.

Tenn., Memphis—Mrs. Douglas Gryms, 1590 Forrest St., erect brick veneer residence, Kimbrough sub-division; 2 stories and basement, 36x34 ft., composition shingle roof, oak floors, tile bath, hot water heat; Polk W. Agee, Archt., 1314 Fidelity Bank Bldg.

Tenn., Nashville—Court R. Boyd erect 2 brick veneer dwellings, 2907-09 Belmont Blvd.; 6 rooms, cost \$5,000 each.

Tex., Galveston—J. F. Read erect \$12,000 residence, Cedar Lawn.

Tex., Harlingen—Joe Roberts, First Nat. Bank Bldg., erect \$15,000 residence; brick veneer, 8 rooms, 1 story; Lloyd E. Mellor, Archt., Burchard Bldg.

Tex., Houston—C. A. Lewis erect brick veneer residence, Prospect Ave. and Dowling St.; 11 rooms, 2 stories; John McLelland, Archt., West Bldg.; bids in.

Tex., Houston—Hugh Wilkins erect 3 dwellings, 1919 Temple Drive, 1511 Branard St., and 1911 McKinney St.; brick veneer, 5 and 6 rooms; total cost \$14,000.

Tex., Houston—S. R. Rawdon erect \$10,000 residence, 1566 Castle Court St.; 2 stories, brick veneer.

Tex., Houston—J. H. Schnell, care Houston Land and Trust Co., 119 Main St., erecting brick bungalow, Shepherd and Rosewood Sts.

Tex., Houston—Immaculate Conception Church has \$15,000 permit for sisters' residence and general repairs, 7233 Capitol St.

Tex., Houston—Pemberton Co., 408 Marine Bank Bldg., D. D. Summers, Pres., erect 12 brick and stone dwellings, connection with development; total cost about \$185,000.

Tex., Houston—University Park Realty Co., 408 Marine Bank Bldg., H. B. Schlesinger, Mgr., plans 30 brick dwellings, connection with development.

Tex., Houston—L. W. Babbitt, Chronicle Bldg., erect \$15,000 residence and garage, 1803 South Bend Ave., Ormand Place addition; brick veneer, 2 stories, 8 rooms.

Tex., Houston—R. G. Hyett, Sec., Lumbermen's Assn., Second Nat Bank Bldg., erect residence, 1912 Wroxton Rd., Southampton.

Tex., Houston—A. A. Muckelroy, care City Engr. Dept., erect residence, Robin Hood Rd. and Shepherd Drive, Southampton.

Tex., McAllen—E. A. Swan, Howell, Mich., erect 10 dwellings, College Heights; plans 25 additional dwellings.

Tex., Midland—Gulf Production Co., Gulf Bldg., Houston, erect 7 bungalows near Midland; contract let.

Tex., Nacogdoches—T. B. Cason, New Boston, erect \$10,000 brick residence; 2 stories; C. G. Curtis, Archt., 1632 Hawthorne St., Houston.

Tex., San Antonio—Lieut.-Col. P. J. Hennessy, 232 Hollywood St., plans about 10 dwellings, Barcissa St.; 6 rooms, 1 story.

Tex., San Antonio—John Thrall, 220 W. Park Ave., erect stucco duplex, 400 block Pershing Ave.; 2 stories, 10 rooms.

Tex., San Antonio—A. E. Basse receives bids June 6 for second story addition to residence; cost \$20,000 Phelps & DeWees, Archts., 718 Gunter Bldg.

Tex., San Antonio—Francis Corrigan, 125 E. Travis St., erect \$22,000 English type residence, Park Hill Estates; 2 stories, 7 rooms, 2 baths and lavatory, stone veneer, rein. concrete foundation, wood shingle roof, stone garage; Albaugh & Steinbomer, Archts., 941 Austin St.

Tex., San Antonio—H. Linden, 334 E. Craig Place, erect English type duplex, Rosewood Blvd., Northeast Addition; 2 stories, stone veneer, rein. concrete foundation, slate roof; Albaugh & Steinbomer, Archts., 941 Austin St.

Tex., San Antonio—C. T. Williams, 426 Wilmington Ave., erect \$18,000 residence, Rosemary Ave., Blue Bonnett Hills, after plans by Albaugh & Steinbomer, 941 Austin St.; stone veneer, 6 rooms, 1 story, metal lath, plaster, 2-car stone garage and servants' quarters.

Tex., San Benito—Roy Clark erect \$10,000 residence; frame and stucco, 2 stories; Har-

vey P. Clark, Archt., Nat. Bank of Commerce Bldg., San Antonio.

Tex., Wichita Falls—Luther Hoffman, Staley Bldg., erect \$20,000 residence, 2703 Avondale St.

Va., Roanoke—C. L. Palmer, 1234 Maple Ave., S. W., erect \$17,000 brick-cased residence, Lafayette Ave.

Va., Suffolk—G. L. Bell, Gen. Mgr.-Treas., Suffolk Feed & Fuel Co., 219 S. Saratoga St., plans 2-story brick residence. See Want Section—Building Materials and Equipment.

Government and State

Mo., Jefferson City—State Penal Board, Dr. Cortez F. Enloe, Director, selected Kennerly & Stiegemeier, Title Guaranty Bldg., St. Louis, as architects for \$250,000 prison within Missouri Penitentiary walls to house incorrigible convicts. 4-28

Okla., Taft—State Board of Affairs, G. C. Wollard, Chmn., Oklahoma City, tentatively selected M. T. Hardin, Equity Bldg., Muskogee, as architect for building work at Deaf, Blind and Orphans' Home; cost \$52,500; also tentatively selected J. B. White, Ardmore, as architect for work at Oklahoma Confederate Home, \$4000.

Okla., Pauls Valley—State Board of Affairs, G. C. Wollard, Chmn., Oklahoma City, tentatively selected J. B. White, Ardmore, as architect for construction at reformatory; cost \$55,000.

Okla., Pryor—State Board of Affairs, G. C. Wollard, Chmn., Oklahoma City, tentatively selected F. C. Walters, 1311 S. Troost St., Tulsa, as architect for construction at Whitaker State Home for Orphans; cost \$27,000.

Tex., Austin—State Board of Control, Dr. H. H. Harrington, Chmn., receives bids June 10 for boiler house and remodeling heating plant at State Confederate Home; cost \$11,000; boiler house and mechanical bids separate; plans, details and specifications from W. E. Ketchum, Archt., Pope Bldg. 4-21

Hospitals, Sanitariums, Etc.

Ark., Blytheville—City Council plans special bond election for rebuilding and maintaining hospital.

Ark., Fayetteville—Dr. Mary Ada Crawford, Tulsa, plans sanitarium, Farmington Rd.

Md., Baltimore—South Baltimore General Hospital, 1215 Light St., receive bids June 15 at office Herbert G. Jory, Archt., 1818 Munsey Bldg., for 4-story, fireproof nurses' home; cost \$100,000, 35x108 ft., face brick and cinder block, stone and terra cotta trim, layer felt roof, wood sash; also bids same date for additional stories to hospital building, second and third floors, 45x45 ft., for private rooms and cubicles, maternity and men's surgical wards; fourth floor, 50x80 ft., for operating suite; face brick and cinder block; Jas. Posey, Engr., 1818 Munsey Bldg. 1-27

Miss., Tougaloo—Tougaloo University erect frame hospital; 2 stories, 70x90 ft., brick and cast stone, concrete foundation, composition roof, wood floors; Emmet J. Hull, Archt., Merchants Bank Bldg., Jackson; soon ready for bids.

Okla., Norman—State Board of Affairs, G. C. Wollard, Chmn., Oklahoma City, tentatively selected Maurice Jayne, First Natl. Bank Bldg., Oklahoma City, as architect for construction at Central Hospital for Insane; cost \$175,000.

Okla., Tulsa—Swisher County Board of Commrs. selected Guy A. Carlander, 15 Masie Bldg., Amarillo, as architect for \$50,000 brick, stone and concrete hospital; bonds voted. 11-25-26

Tenn., Leas Springs—Leas Springs Corp., 426-27 Holston Bank Bldg., R. L. Rutzler, Pres., erect sanitarium, Leas Springs; Manley, Young & Meyer, Archts., 302 W. Church St.; Chas. F. Lester, Landscape Archt., General Bldg., all Knoxville. See Land Development.

Tex., Amarillo—Wyatt C. Hedrick, Inc., Archt., First Nat Bank Bldg., Fort Worth, advises plans for St. Anthony Sanitarium, to be erected by Sacred Heart R. C. Parish, indefinitely postponed on account of lack of proper financing. 5-26

Tex., Houston—City of Houston, O. F. Holcomb, Mayor, and Harris County, H. L. Washburn, County Auditor, receive bids June 20 for laundry building for Tuberculosis Hospital; plans, specifications, etc., from City Archt., Room 504 Central Fire and Police Station Bldg.

Tex., Lubbock—Lubbock Sanitarium Co. opens bids about June 18 for fireproof clinic; 3 stories, 98x97 ft., brick, tile and rein. concrete, stone trim, concrete, terrazzo and Zeni-

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thern floors, concrete foundation, built-up roof, cost \$100,000; Peters & Haynes, Archts., 321-25 Ellis Bldg. Address Dr. J. T. Hutchinson, Pres. See Want Section—Building Materials and Equipment. 6-2

Tex., McAllen—City, F. B. Freeland, Mayor, receives bids about June 6 for rein. concrete, brick and hollow tile hospital; cost \$100,000, 3 stories and enclosed roof, composition and tile floors, steam heating plant; Harvey P. Smith, W. E. Simpson Co., Engr., both Nat. Bk. of Commerce Bldg., San Antonio. 5-5

Tex., San Antonio—Santa Rosa Infirmary, 745 W. Houston St., has low bid at \$195,640 from Moeller & Wellbacher, 1211 Willow St., for Gothic type hospital addition; plumbing and heating bid from Chalkley Bros., 1222 Navarro St., \$38,756; wiring, \$9354, and refrigeration, \$2180, from Martin Wright, 104 Ellsmere St.; refrigerators, Ed Frederick, \$1930; Atlee B. & Robt. M. Ayres, Archts., Bedell Bldg. 5-19

Hotels and Apartments

Ala., Center—J. D. Jordan assembling material for \$30,000, 2-story, brick, 90x60 ft. hotel building; 20 rooms, each with bath, steam heat.

Ark., Hot Springs—Selim E. G. Mattar, 370 Central Ave., will have completed plans in July; plans to start work in Aug. on \$750,000, 15-story and basement hotel building on site of old Grand Opera House, Central Ave. and Canyon St.; 300 guest rooms, 150 to be equipped with baths and plumbing fixtures; 2 floors for apartments with kitchenettes, dining alcoves and in-a-door beds; main floor for lobby, check room, offices, coffee room and kitchen; 2 high-speed elevators, circulating ice water, electric ceiling fans, glass enclosed roof garden; in connection will be motion picture theater, with seating capacity of 400 and 150-car garage; Frank W. Gibb & Co., Archts., Gazette Bldg., Little Rock.

Fla., Jacksonville—A. K. Solomon erect eight 2-story, frame, 8-flats, 730-4 DeWitt St.; \$14,000.

Fla., Mount Dora—Hotel Villa Dora plans to erect addition; address the Propr.

Fla., Mount Dora—Lakeside Inn planning to erect addition; address the Propr.

Fla., Mount Dora—Henry Wiley, owner of Grandview Hotel, having plans drawn for remodeling lobby and parlors, cost \$15,000 to \$20,000.

Ga., Brunswick—Sea Island Investments, Inc., Paul J. Varner, Vice-Pres., has plans by W. L. Stoddart, Archt., 50 E. 41st St., New York, for \$450,000, reinforced concrete, 100-room, 4-story hotel at Glynn Isle; F. E. Twitty, Chmn. of Committee to secure \$75,000 subscriptions. 3-10

Ga., Moultrie—R. L. Oertle, Sec. Chamber of Commerce, direct financial campaign, to start this week, for \$135,000, 90x141-ft., semi-fireproof community hotel building; 3 stories, wood floors, sprinkler system; equipment and furnishings cost \$40,000; Archt. probably T. F. Lockwood, Albany, Ga.

Ky., Covington—S. Carr erect \$10,000 flat building at 3615 Decoursey Ave.

La., New Orleans—Theodore L. Perrier, Canal-Commercial Bldg., completing plans and specifications for remodeling building at 627-9 Dumaine St. into 4 studios.

La., New Orleans—J. T. Fredericks, 2401 Dryades St., erect \$11,000, 28x134 ft., 2-story tenement at 2715-17 Saratoga St.

La., New Orleans—Emile Well, Inc., Archts., Whitney Bank Bldg., placed plans and specifications on market for general contract bids, to be received until June 23, for \$1,000,000, 15-story and basement, steel, fireproof Marberc Hotel building, cor. Canal and Loyola Sts., for B. G. Carbajal, Inc., Hibernia Bldg.; separate proposals on electric work, lighting fixtures, kitchen equipment, elevators, vault doors, clock, etc. 2-24

La., New Orleans—John Liuzza, 340 Carondelet St., entered contract with interestees headed by Benjamin H. Marshall, 721 N. Michigan Ave., Chicago, Ill., to construct \$2,000,000, 300-room resort hotel building, on island to be created from Milne tract in Bayou St. John; Mr. Marshall is also architect.

Miss., Pass Christian—Walter Cook Keenan, Archt., Liverpool & London & Globe Bldg., complete plans and specifications this month for \$75,000, 2-story, stucco hotel building for Gray Castle, Inc., cost \$75,000; 40 rooms with baths, tile and composition roof, tile and marble lobby, steam heating. 4-14

Mo., St. Louis—Alex Cole, 4412-14 Forest Park Ave., has plans by Echterkamp & Koert, 407 Louderman Bldg., for \$45,000, 2-story and basement, brick, 12-unit apartment building; concrete foundation, composition

roof, cut stone trim, electric refrigerating, hardwood floors, tile baths, steam heat.

Mo., St. Louis—Northwestern Corp., care Klingenschmidt, Rice & Wilkins, Archts., 1217 Louderman Bldg., received bids for \$20,000, 2-story and basement, 40x56-ft. apartment building and \$125,000, 200x50-ft., 2-story and basement building containing 9 stores, 9 apartments and 14 garages, at Floy and W. Florissant Sts.; composition roofing, tile baths, hardwood floors, steam heating.

Okla., Boise City—Mrs. Lela Mae Barnum, 605 Rule Bldg., has final plans in progress for \$25,000, 1-story, stucco and frame hotel building, Scotland Heights Addition; French & French, Archts., City Hall, Amarillo, Texas.

Okla., Oklahoma City—L. C. Wells, Wells Hotel, and L. E. Roberts, Roberts Bldg., soon have plans by Leland I. Shumway, Archt., Alexander Bldg., all Tulsa, for 10-story, 50x140-ft. hotel; reinforced concrete frame, granite, brick and terra cotta facing, metal windows, gypsum partitions, marble and tile floors and wainscote, concrete foundation, built-up asphalt roof.

Okla., Tulsa—Axel Anderson, 3 S. Elwood St., erect \$16,000, 3-story, reinforced concrete frame, 6-apartment house at 2021 E. 12th St.

Tenn., Chapel Hill—Mrs. J. S. Hargrove owner of Hargrove Hotel, razing present building start work at once on new brick hotel building.

Tenn., Leas Springs—Leas Springs Corp., R. L. Rutzler, Pres., 426-7 Holston Bank Bldg., Knoxville, erect 2 summer resort hotels, about 100 rooms each, in connection with development. (See Land Development.)

Tex., Dallas—Sam Kickerillo and F. R. Perkins, Republic Bank Bldg., have plans by F. J. Woerner & Co., 502 Central Bank Bldg., for \$75,000, 2-story apartment building, Ross and Garrett Aves.; two units, 34x134 ft., fireproof, metal lumber, steel formed joists, wood over concrete floors, concrete foundation, asphalt roof. 5-26

Tex., Fort Worth—A. B. Elkins, 112 W. Hattie St., erect \$12,000, brick veneer apartment house at 2004 Clover Lane.

Tex., Fort Worth—O. H. Simpson, 612 W. Third St., erect \$40,000, brick and tile apartment house at 703 W. Third St.

Tex., Fort Worth—J. C. Snider, 1004 S. Henderson St., make repairs to apartment house; \$10,000.

Tex., Houston—James E. Smith, erect \$25,400, 2-story, brick veneer, 8-apartment house and garage, 429 Hawthorne St.

Tex., Menard—Chamber of Commerce committee, A. E. Nauwald, Chmn., raised \$18,000 bonus toward \$100,000, 3-story, 40 to 50 room hotel, to be built by Mr. and Mrs. H. F. Green, Mineral Wells.

Tex., Mission—Cordell Hotel announced plans for 22-room wing.

Tex., Quanah—Joe L. Dossett plans \$185,000, 4-story, concrete, brick and stone hotel building.

Tex., San Antonio—Mrs. Ida McVicker, care Homesite Investment Co., 329 Texas Theater Bldg., receiving bids, no date for closing, for 2-story, brick veneer, 4-suite apartment building, San Pedro and Linwood Aves.; plans by E. S. Kaler & Co., Travis Bldg.

Tex., San Antonio—A. T. Ditch, 2712 N. Flores St., erect \$12,000, 20-room apartment house on Russell St.

Tex., Sweetwater—H. B. Allen and Associates receive bids June 13 for \$250,000 6-story and roof garden, 100x140 ft., 105-guest room hotel building; reinforced concrete frame, brick, hollow tile, plaster walls; Herbert S. Green, Archt., Alamo Natl. Bank Bldg., San Antonio. 5-12

Tex., Victoria—Bayside Beach, Inc., Jimmie Hodges, Gen. Mgr., 301 Texas Theater Bldg., San Antonio, plans \$700,000 3-story, 100x250-ft., reinforced concrete hotel building at Bayside Beach, Calhoun County; also erect 2-story, reinforced concrete, 50x100-ft. building for electric light plant and ice storage; include roof garden; Ferrand & Fitch, Archts., Slaughter Bldg., Dallas; Terrell Bartlett Engineers, Inc., Engrs., Calcasieu Bldg., San Antonio. See Want Section—Building Materials and Equipment.

Va., Norfolk—H. R. Dudley, 4016 Gosnold Ave., erect \$10,000, frame, 4-family apartment house at 533 Pennsylvania Ave.

Miscellaneous

Ga., Atlanta—Home for the Friendless, Mrs. Dan Thomas, Pres. of Board of Managers, plans to raise \$50,000 for new home in Boulevard Park; G. Lloyd Preacher & Co., Archts., Wynne Claughton Bldg.

Ky., Louisville—Charles P. Moorman Home

for Women, Cherokee Road, receives bids on June 15 for \$250,000, 3-story and basement, fireproof home; floors of bar joists, concrete foundation, slate roof; address all proposals to E. T. Hutchings, Archt., 418 S. Fifth St.; G. M. Grimes, Asso. Archt. See Want Section—Building Materials and Equipment. 6-2

Miss., Jackson—Board of Trustees of Mississippi Methodist Orphanage accepted donation from O. L. Beidenharn, Shreveport, for new building; W. M. Bule, 628 N. State St., member Building Committee.

Mo., St. Louis—Will Levy, Archt., selected to prepare plans and specifications for \$200,000 Jewish Orphans' Home, facing Oakland and Clayton Aves. east of Skinker Road; Abe Levin, 3646 Waterman Ave., Chmn. Building Committee.

Okla., Oklahoma City—Rev. A. S. Mayfield interested in erection of home for Civil War negroes as annex to National Negro Orphanage and Old Folks' Home.

Tenn., Chattanooga—Manufacturers Association considering erecting new \$400,000, 8-story building.

Tex., Houston—Polk and La Branch St. Market Co., Wharton Weems, Pres., has plans in progress by Joseph Finger, Keystone Bldg., for \$25,000, 1-story community market building, Polk and La Branch Sts.

Tenn., Rhea Springs—Cumberland Country Club, care Dr. Jackson H. Barnett, Volunteer Life Bldg., Chattanooga, plans development of club resort; construct 50-room, 2-story hotel addition to present building; also stone clubhouse later.

Tex., San Antonio—Dr. L. L. Shropshire, Moore Bldg., has permit for \$18,000 second story addition on Martin St.

Tex., San Antonio—Dr. B. F. Stout and Dr. W. S. Hamilton, both Medical Arts Bldg., purchased 52-ft. frontage on Travis St., considering erecting 6 or 7 story building; no immediate action.

Railway Stations, Sheds, Etc.

Ark.-Tex., Texarkana—Texarkana Union Station Trust Co., care E. A. Hadley, Ch. Engr., Missouri Pacific Railroad Co., Railway Exchange Bldg., St. Louis, Mo., take bids about June 30 for union station; reinforced concrete and brick construction, cut stone trim, reinforced concrete foundation, wood block and concrete flooring, built-up asphalt roof, station 3 stories 50x380.4 ft. and mail building 2 stories 50x228 ft.; cost reported total \$1,700,000; E. M. Tucker, Archt., 1164 Railway Exchange Bldg.; Taxis & Becker, Constl. Engrs., Chemical Bldg.; both St. Louis. 9-30-26

Tex., Houston—Southern Pacific Lines, H. M. Lull, Executive Vice-Pres., Southern Pacific Bldg., approved plans, reported to start work this year on new passenger station; Dwight P. Robinson Co., Archts., 125 E. 46th St., New York, and Bankers Mortgage Co. Bldg., Houston. 3-10

Schools

Ala., Anniston—City voted \$100,000 bonds; add 11 rooms to North Noble Street School, 4 rooms at Woodstock School, and additional rooms at Pine Ave. School; address Board of Education. 5-12

Ala., Birmingham—Jefferson County Board of Education, 746 N. 21st St., receives bids June 15 for 4-room and basement addition to Shades Cahaba High School; plans and specifications from Denham, Van Keuren & Denham, Archts.-Engrs., Age-Herald Bldg.

Ala., Birmingham—Dr. John C. Dawson, Pres. of Howard College, announced expansion program involving erection of 2 new buildings during summer, costing \$50,000, and ultimate expenditure of \$500,000; provide for Pi Kappa Phi fraternity and Square and Compass Club; Denham, Van Keuren & Denham, Archts., Age-Herald Bldg. 4-21

Ala., Walnut Grove—Walnut Grove Boys' Pig. Cow, Corn, Cotton and Poultry Club plans to finance athletic building for Walnut Grove High School.

Ark., Fort Smith—Board of Education, Grover C. Hardin, Pres., planning senior high school on North B. between 23rd and 24th Sts. and new school in Trusty district.

Ark., Little Rock—Executive Committee of Arkansas Expansion Movement, Gov. Thomas C. McRae, Chmn., endorsed campaign for \$750,000 of which \$350,000 will be used in constructing 4 new buildings; selected sub-committee with Mrs. Fred W. Allsopp, 4206 Fairview St., as Chmn., to sponsor building of \$100,000 woman's dormitory; Mrs. H. H. Foster, 2122 Broadway, Chmn. of committee to sponsor building conservatory of music; John Quincy Wolfe, Jr. and Don L. Lawson,

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both Batesville; leaders of group to solicit funds for gymnasium. 3-3

D. C., Washington—District Commissioners, Room 509 District Bldg., opens bids June 10 (postponed date), for 4-room addition to Smothers School; proposal forms at Room 427 District Bldg. 5-26

Fla., Monticello—Jefferson County Board of Public Instruction planning to erect new high school and grammar school at Aucilla and junior high and grammar schools at Wacissa; each cost \$30,000; also erect negro schools, cost \$5000 in these towns.

Fla., Pensacola—Escambia County Board of Public Instruction call second election June 27 in Escambia School District, on \$225,000 school bonds; address Oliver J. Semmes, Sec. 5-19

Ga., Dalton—Dawsonville Consolidated School District votes June 14 on \$15,000 bonds. Address Whitfield County Board of Education.

Ga., Fargo—Cline County Board of Education, Homerville, soon have plans for new school building.

Ga., Vidalia—School Board has plans in progress for 2 new units to High School building.

Ky., Benton—School Board call election June 18 on \$12,000 bonds toward proposed \$50,000 school building.

Ky., Frankfort—L. Oberwarth & Son opened bids for erecting 2-story and basement, 50x120 ft. school building at Feeble Minded Institute; Green Lyons, low bidder.

La., Alexandria—Louisiana College, Henry E. Walden, director of athletics, launched campaign for new athletic field; also enlarge gymnasium building.

La., Bossier City—C. M. McKennon, principal of Bossier City High School, announced plans for improvements totaling \$65,000; construct \$25,000 athletic field, convert frame building into cafeteria, etc. 3-10

La., Houma—Terrebonne Parish School Board will erect 4-classroom building on Bayou Black and 2-room school at Bayou Cane; \$10,000.

La., Iota—Acadia Parish School Board, Crowley, postponed date of opening bids for brick and stone trim school building; plastered interior, waterproofing, reinforced concrete foundation, Barrett roof, structural steel work; Herman J. Duncan, Archt., Alexandria. 3-10

Miss., Biloxi—Rev. W. M. Sullivan announced plans for brick high school and junior college building on Seashore Campground by Methodist conferences of Miss., La. and Ala.

Miss., Brooklyn—N. W. Overstreet, Archt., Gulfport, complete plans and specifications in 6 weeks for \$70,000, 2-story, brick and stone trim academic building for Brooklyn Agricultural High School; built-up composition roof, plastered interior, wood and concrete floors. 4-28

Miss., Corinth—City voted \$150,000 school improvement bonds; address Board of Education. 5-12

Miss., Jackson—Millsaps College, Dr. D. M. Key, Pres., has plans under way for new girls' dormitory.

Miss., Natchez—Board of School Trustees receives bids June 16 for \$250,000, 2-story and basement reinforced concrete, steel, brick and cement trim High School building; plans and specifications from P. J. Krouse, Archt., M. & W. Bldg., Meridian. 5-12

Miss., Prentiss—Town voted bonds for addition to Jeff Davis Lawrence consolidated school; address Board of School Trustees.

Mo., Kansas City—Board of Education receiving bids for completing addition to Swinney School, 47th and Holly Sts.

Mo., Poplar Bluff—School District of Poplar Bluff, P. C. Hays, Sec., asked architects make survey as to cost of rebuilding East Poplar Bluff School, destroyed by tornado; P. T. Sigler, Chmn. Building Committee.

Mo., St. Louis—St. Louis Board of Education, care L. D. Danney, 8743 Roslie St., soon receive bids for 2-story and basement, 6-classroom and auditorium, 130x36-ft. High School at Brentwood; Dan Mullen, Archt., 18 N. Meramec St., Clayton.

N. C., Asheville—Buncombe County Board of Education, A. C. Reynolds, Supt., rejected all bids, reopen new bids June 13 for High School at Oakley, on Fairview Road; shipping point Fairview, care Brown's Siding; plans and specifications from W. H. Lord, Archt., 17½ Church St. 5-26

N. C., Banner Elk—Board of Trustees of Edgar Tufts Memorial Assn. and Plumtree School for Boys planning to build boys' high school.

N. C., Boone—Watauga County Board of Education, Smith Hagaman, Supt., has preliminary drawings in progress by E. A. Poe, Archt., Lenoir, for High School buildings at Blowing Rock and Cove Creek, cost \$32,000 and \$16,000 to \$20,000.

N. C., Charlotte—Board of School Commissioners, H. P. Harding, Supt. of Schools, has completed plans by Lockwood, Greene & Co., Johnston Bldg., for \$200,000 Fourth Ward Junior High School. 2-17

N. C., Raleigh—Wake County Board of Education, John C. Lockhart, Sec., receives bids until June 14 for general construction, heating and plumbing following buildings: Two-story, frame and brick, 12-classroom and auditorium about 2 miles from Carpenter and Upchurch stations; plans and specifications from W. H. Deitrick, Archt., 1526 Carr St., 2-story, brick and frame, 12-classroom building at Cary; alterations and additions to Wakelon elementary building at Zebulon; alterations and additions to building at Holly Springs; plans and specifications for these from Robert J. Barbee, Archt., 1214 Mordecai Drive; 2-story, brick and frame building, 10 classrooms, vocational rooms and auditorium at Fuquay Springs; alterations and additions to present building at Apex, brick and frame; 8-classroom addition at Knightdale, brick and frame; plans and specifications from J. M. Kennedy, Archt., Gilmer Bldg.; 2-story, brick and frame, 10-classroom and auditorium building at Method, plans and specifications from Frank B. Simpson, Archt., Masonic Temple Bldg.; 1-story, 8-room graded school buildings with 10 classrooms and auditorium, at Auburn, Willow Springs, near McCullers; 1-story, brick and frame building with auditorium, near Method; plans and specifications from Sec. of Board; separate bids on plumbing and heating.

N. C., Shelby—School Board may erect \$20,000 school building in West Shelby.

Okla., Boise City—Board of Education, W. S. Martin, Sec., soon take bids for Ward School building; 1 story, brick, 10 classrooms, auditorium, artificial stone and terra cotta trim, steam heating; C. F. Ward & Co., Archts., 45 Smith Bldg., Amarillo, Texas.

Okla., Comanche—Board of Education soon call \$30,000 bond election for new school building; Butler Co., Archts., Oklahoma City, preparing preliminary plans.

Okla., Hennessey—Board of Education soon have plans by Tonini & Bramblett, 416½ W. Main St., Oklahoma City, for \$50,000 school building. 4-28

Okla., Keyes—Board of Education soon take bids for \$10,000 school building.

Okla., Medford—School Board opens bids June 10 for addition to school building.

Okla., Oklahoma City—State Board of Affairs, G. C. Wollard, Chmn., tentatively selected architects for new construction program as follows: Oklahoma College for Women, Chickasha, \$200,000, Joseph I. Davis, First National Bldg.; Central State Normal, Edmond \$125,000, Guy C. Reed, 2039 W. 17th St.; School for the Deaf, Sulphur, 3 buildings, \$96,000, Walter T. Vahlberg, 2041 W. 21st St.; Colored Agricultural and Normal University, Langston, \$85,000, Guy C. Reed; all Oklahoma City; Oklahoma Military Academy, Claremore, \$172,500, A. J. Love, 204½ E. Third St., Tulsa; East Central State Teachers' College, Adam, \$116,000, A. S. Ross, Ada; Institute for the Feeble Minded, Enid, \$60,000, R. W. Shaw, Enid; Deaf, Blind and Orphans' Home for Colored Children, Taft, \$52,500, M. T. Harding, Equity Bldg., Muskogee; Southwestern State Normal Weatherford, \$35,000, Clay Riggins, Ardmore; State Training School for Negro Boys, Boley, \$15,000, R. E. Ritcher, Okmulgee.

Okla., Orlando—Butler Co., Archt., Hersk Bldg., Oklahoma City, preparing plans for \$25,000 brick and stone school building.

Okla., Retrop—Board of Education opened bids for erecting \$30,000 brick and stone school building; J. A. Thompson, Granite, low bidder; private plans.

Okla., Sand Springs—Board of Education has plans by A. J. Love & Co., 204½ E. Third St., Tulsa, for 1-story brick school building; concrete foundation, asphalt roof, yellow pine floors.

S. C., Greenville—Parker School District, L. P. Hollis, Supt., soon have plans by William R. Ward, Jr., Walker Bldg., for \$40,000, 2-story and basement, 12-room school building. 5-26

Tenn., Altamont—Grundy County voted \$30,000 High School bonds. Address Board of Education.

Tenn., Cleveland—Delta Teachers College, W. R. Ketchley, Pres., planning to erect

girls' dormitory, gymnasium and 2 residences; cost \$170,000.

Tenn., Hillsboro—Coffee County Board of Education, David W. Shields, Jr., Supt., Manchester, planning to erect \$10,000, frame, 1-story, 6-classrooms and auditorium school building; concrete foundations, wood or asphalt shingle roofing, equipment and furnishings cost \$1500; plans by State Department of Education, Nashville. See Want Section—Building Materials and Equipment. 5-26

Tenn., Knoxville—Board of Education, L. H. Spilman, Pres., opened bids for erecting Giffin and Claxton Schools; A. J. Stair & Son, 537 Union St., low bidders on Claxton School at \$33,733 complete and Giffin School at \$47,841 complete; Barber & McMurry, Archts., General Bldg. 5-26

Tenn., Knoxville—School Board, W. L. Ambrose, Chmn., considering purchase of 11-acre tract in Kingston Pike and Sequoyah Hills section, for grammar school.

Tenn., Maryville—City Election Commissioners call election June 30 on bonds for purchase of Maryville Polytechnic School for high school purposes.

Tenn., Pikeville—Bledsoe County voted \$65,000 bonds for rebuilding High School recently burned. Address County Board of Education.

Tex., Abilene—North Park Independent School District, care John E. Hutton, Supt., voted \$12,000 bond issue for school addition.

Tex., Amarillo—Board of Education, W. N. Rurnham, Pres., has plans by E. F. Rittenberry, 301 Blackburn Bldg., take bids at once for \$135,000 East Ward School and \$150,000, 24-classroom and auditorium building; brick, stone, steel, reinforced concrete, fireproof.

Tex., Big Springs—Board of Education, Dr. E. O. Ellington, Pres., soon call election on \$250,000 bonds for new high school building.

Tex., Burnet—Board of Education has plans in progress by H. F. Kuehne, 824 Littlefield Bldg., Austin, for remodeling and addition to school; \$25,000. 5-5

Tex., Gregory—Board of Education opened bids for erecting 1-story, 95x115 ft. High School building; W. J. Thopson, Robstown, low bidder at \$29,850; brick, tile, stucco, reinforced concrete, cast stones; 7 classrooms, auditorium, etc.; Hamon & Co., Archts., 410½ Peoples St., Corpus Christi. 5-19

Tex., Houston—Harrisburg Independent School District, J. C. Webb, Supt., votes June 20 on \$400,000 bonds for addition to Milby High, new Junior high, etc.

Tex., Malakoff—Malakoff School District voted bonds for High School building. Address Board of Education.

Tex., Rock Springs—House passed bill appropriating \$100,000 to restore school and waterworks destroyed by tornado; address Board of Education.

Tex., Slatillo—Board of Education soon have plans by Smith & Praeger, Paris, for 1-story, brick, 8-classroom and auditorium school building; soon call \$20,000 bond election.

Tex., San Antonio—Los Angeles Heights Independent School District Board of Education plans bond issue for school improvements.

Tex., San Benito—San Benito Independent School remodel school; plaster interior, stucco exterior; 2 stories, 50x150 ft.; Harvey P. Smith, Archt.; W. E. Simpson Co., Engrs., both Nat. Bank of Commerce Bldg., San Antonio; drawing plans. 5-26

Tex., Sherman—Austin College, S. N. Trevino, Bus. Mgr., has plans under way for frame gymnasium building.

Tex., Sherman—School Board considering calling \$125,000 bond election, acquire site and erect building for Jefferson School.

Tex., Truscott—Board of Education, J. E. Stover, Sec., have completed plans about June 20 for \$40,000, fireproof school; brick, steel, reinforced concrete, 8 classrooms, auditorium, etc.; Voelcker & Dixon, Archts., Kahn Bldg., Wichita Falls.

Tex., Wells—School Board erect \$12,000 addition to school building.

Va., Richmond—School Board, W. Floyd Reams, Chmn., tentatively plans construction program to include \$850,000 Western high school to contain 80 rooms, addition to Armstrong colored high, new junior high in East End, additions to elementary schools in North and South Richmond; probably ask bond issue.

Va., Roanoke—City will vote July 12 on \$1,300,000 bonds for improvements to schools, streets, etc.

W. Va., Barboursville—Morris Harvey Col-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

lege, C. W. Thornburg, Pres. Board of Trustees, postponed date of opening bids on \$100,000, 3-story McDonald Hall boys' dormitory, until June 12; also approved plans for religious education building, call for bids at once; Meanor & Handloser, Archts., Professional Bldg., Huntington. 5-12

W. Va., Barboursville—Morris Harvey College, Dr. M. P. Shawkey, Pres., considering erecting temporary classroom building at Fifth Ave. and 17th St.

W. Va., Morgantown—State Board of Control, James S. Lakin, Pres., Charleston receives bids July 11 for Men's Field House at West Virginia University; 1-story playing field, 2½-story locker unit adjacent; steel skeleton construction, plank and slag roof, brick walls, with cut stone trim, terra cotta interior partitions, cement and wood floors, metal stairways, metal sash, wood interior doors; Davis, Dunlap & Barney, Archts., 1805 Walnut St., Philadelphia, Pa.

Stores

Fla., Jacksonville—J. W. Thomas has permit for \$10,000, 1-story, concrete block stores, 2425-29 Enterprise St., for B. W. Hilmey.

Ga., Atlanta—Ladson Estate erect \$20,000, 1-story, brick store building at 1697 to 1707 Peachtree Road.

Ga., Waycross — W. A. McCarthy erect store and ice house on Brunswick Ave.

La., New Orleans—L. J. Hubert, Napoleon and Broad Sts., erect 60x27 ft., 2-story, stone-tile drug store on Napoleon Ave.; \$13,000, composition roof; Ed. D'Armas, Archt.

La., New Orleans—Weiss, Dreyfous & Seiferth, Archts., Maison Blanche Bldg., opened bids for 2-story, 60x80.9 ft., brick and frame store and apartment building at St. Claude Ave. and Poland St.; E. W. Ulrich Glass Co., 808 Baronne St., low bidders at \$10,000; under advisement. 5-19

La., New Orleans—A. W. Nolde, furniture dealer, 217 N. Rampart St., plans 4-story addition.

Okla., McAlester—Bay De La Mater purchased building at Third and Choctaw Sts., will remodel.

Okla., Muskogee—J. M. McIntee, Jr., contemplates remodeling store building, \$50,000.

Okla., Ponca City—T. J. Myatt soon have plans by Smith & Senter, Commerce Bldg., Okmulgee, for \$25,000 business building.

Tenn., Knoxville—F. W. Browning of Browning-Roberts Belting Co., 408 W. Jackson St., has plans in progress by Manley, Young & Meyer, 302 W. Church St., for 1-story and basement, brick mercantile building, Grainger St. near Sixth Ave.

Tex., Dallas—Boyer Estates erect \$19,400 brick stores and oil station, 2013-17 N. Harwood St.

Tex., Dallas—B. and L. Coniglio, 3315 San Jacinto St., erect 7 brick stores at 4216-18 Live Oak St.; \$12,000.

Tex., Fort Worth—H. M. Marks, Jr., D. Waggoner Bldg., and associates purchased property at Lexington and W. Seventh Sts., plan brick building.

Tex., Laredo—J. A. Valls opens bids June 15 for 2-story, fireproof store and office building; John Marriott, Archt., Frost Bldg., San Antonio. 4-28

Tex., Mission—Thomas B. Sammons and Mrs. Florence Hays, erect 2-story, brick veneer store and apartment building.

Tex., Pharr—J. D. McCaleb will erect 2-story store building.

Tex., San Antonio—J. E. Helmer, New Sign Co., 902 Victoria St., contemplates \$8000 to \$10,000, 1-story, 58.6x100 ft., brick and reinforced concrete store building, 1300 Block S. Hackberry St.; architect not selected.

Tex., San Antonio—T. W. Langen, 125 San Juan St., soon receive bids for 2-story, concrete, hollow tile and stucco store and apartment building, Presa and Callaghan Ave.; Beverly W. Spillman, Archt., Alamo Bank Bldg.

Tex., San Antonio—J. M. and I. Nevelow, 512 E. Travis St., plans 1-story, brick and reinforced concrete stores and drive-in station in 500 block W. Josephine St.

Tex., San Antonio—Standard Trust Co., opened bids for remodeling business building at 221 E. Houston St.; new front, interior decorating, etc.; H. B. Allen, Fredericksburg Road, low bidder at \$11,253; Phelps & Dewees, Archts., 718 Gunter Bldg.

Tex., San Antonio—Carl Newton and B. R. Webb, 102 W. French Place, have working drawings in progress by Adams & Adams, Builders Exchange Bldg., for \$65,000, 2-story, stone trim building for Fox Co., 1700 block 96x260 ft., reinforced concrete, brick and cast Broadway.

Tex., San Benito—Dr. William Vinsant has plans in progress by Adams & Adams, Builders Exchange Bldg., San Antonio, for \$15,000, 2-story, brick and hollow tile store building.

W. Va., Parkersburg—Abe I. Brown and Laskys, Inc., 315 Market St., will erect \$40,000 building, contain 5 store rooms; brick, concrete and steel; Wilbur T. Mills, Archt., Columbus, Ohio.

Theaters

Fla., Ocala—Walter R. Pedrick announced plans for theater building on Ocklawaha Ave., seating capacity 1000; Frederick T. Uezzell, Archt.

Ky., Hopkinsville—Planters Bank & Trust Co. Trustee: city and county public building and armory, containing theater. See Buildings Proposed—City and County.

Tex., Houston—W. S. Rhodes, 1016½ Congress St., preparing plans for \$12,500, 50x80 ft., brick and tile negro picture theater at Leeland and St. Charles Sts.

Va., Richmond—Fred A. Bishop, Archt., Electric Bldg., wires: "Bids will be opened on new State Theater, W. Hampton Ave., about July 5; seating capacity 1500, exterior brick and polychrome, terra cotta interior,

ornamental plaster walls and ceilings, marble and tile floors; will be built day labor, certain parts sub-contracted; owners Charles A. Somma, 528 N. Second St. and W. A. Coulter." 10-7-26

Warehouses

Ga., Vidalia—Vidalia Tobacco Warehouse Co. has plans in progress for 60x100 ft. warehouse addition.

Ky., Louisville—Hofgesang & Abbott, erect \$15,000, brick warehouse at 1501 S. First St.

Tenn., Signal Mountain—Hamilton County Lumber Co., 1203 Greenwood Ave., Chattanooga, erect warehouse, Hollywood Station.

Tex., Corpus Christi—R. A. Thompson, 904 Buford St., and associates started preliminary work on bonded distribution and concentration warehouse; first 2 units to be built at present, cost \$125,000; R. J. Cummins, Const. Engr., Bankers Mortgage Bldg., Houston receiving bids.

Tex., Wichita Falls—Texas Electric Service Co. probably call for bids this month for \$30,000, 70x140 ft., brick, reinforced concrete, fireproof warehouse; 1-story with foundation for 2; Voelcker & Dixon, Archts., Kahn Bldg.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Ark., Little Rock—Young Men's Christian Assn. let contract at \$300,000 to W. Frank Ault, Moore & Turner Bldg., for fireproof building; 5 stories, 120x141 ft., rein. concrete floors and foundation, tile roof; Mann & Stern, Archts., A. O. U. W. Bldg.; Carver & Morrow, Engrs., Gazette Bldg. See Want Section—Building Materials and Equip. 5-12

Fla., Bartow—Ancient Free and Accepted Masons, H. G. Taylor, Chmn., Bldg. Comm., erect \$85,000 temple; brick, 2 stories, 48x60-ft. banquet hall, kitchens; contract let.

Fla., Dunnellon — W. H. Berry, Contr., erecting residence.

Fla., New Smyrna—Ancient Free and Accepted Masons, Geo. I. Fullerton, member, Bldg. Comm., let contract at \$51,433, including sub-contracts, to D. F. Douglass Co. for temple; concrete work, D. M. MacDonald; plumbing and heating, R. M. Cunningham; wiring and fixtures, Chapman Electric Co.; building material, Bond Howell Lumber Co.; roofing and sheet metal work, Invisible Metal Products Co., all New Smyrna; cast stone trim, Arnold Stone, Brick and Tile Co., Lem Turner Rd., Jacksonville, Fla.; struct. steel, Ingalls Iron Works, 720 Ave. D, Birmingham, Ala.; painting and decorating, W. C. Cordes, 843 S. Palmetto St., Daytona Beach, Fla.; oriental stucco, U. S. Gypsum Co., Chicago, Ill.; orna. plaster, Fischer & Jirouch Co., Cleveland, O., and Jacobson & Co., New York; structure 2 stories, 50x100 ft., load-bearing or interlocking tile, brick piers, steel trusses and beams, oriental stucco and cast stone exterior; banquet room, kitchen, boiler room, etc., on first floor, lodge rooms above; Elton J. Moughton, Archt., Sanford, Fla.; W. C. Spiker & Co., Const. Engrs., Forsyth Bldg., Atlanta, Ga.

Tex., Houston—Young Women's Christian Assn. erect second story to cafeteria building, 506 San Jacinto St.; cost about \$23,000, 45x100 ft., rein. concrete, hollow tile and stucco, cork insulated tar and gravel roof; Thos. M. Murray, Contr., Second Nat. Bank Bldg.

Va., Martinsville—Knights of Pythias let contract for \$42,000 building, W. Main St., to Fuqua Construction Co., Krise Bldg., Lynchburg; rough face brick, cut stone trim, 50x80 ft.; Eubank & Caldwell, Archts., Boxley Bldg., Roanoke.

Bank and Office

D. C., Washington—Second National Bank, 509 Seventh St., N. W., Saml. J. Prescott, Chmn. of Board, erect \$350,000 steel and concrete bank and office building, 1333 G St., N. W.; 9 stories, 45x100 ft., tile and composition floors, concrete foundation, slag roof, vapor heat, faced with Indiana limestone; Appleton P. Clark, Jr., Archt., 816 Fourteenth St. N. W.; Thos. W. Marshall, Engr., 1341 Connecticut Ave. N. W.; Samuel J. Prescott Co., Contr., 814 Thirteenth St. N. W. See Want Section—Building Materials and Equipment. 6-2

Fla., Tallahassee—Exchange National Bank, C. T. Mizell, Pres., let contract to W. P. Thurston, Malaga St., St. Augustine, for \$100,000 bank and office building; fireproof, brick and tile, 5 stories, 40x80 ft., cement floors, built-up Johns-Manville roof; Edwards

& Sayward, Archts., 101 Marietta St., Atlanta, Ga. 5-5

Md., Baltimore—Park Bank, Lexington St. and Park Ave., Webster Bell, Pres., let contract to Morrow Bros., Fidelity Bldg., for 5-story addition to building, Liberty St.; cost about \$100,000, 75x21.6 ft.; fireproof, steel frame, hardwood, marble and terrazzo floors, brick foundation, slag roof, limestone, metal doors, steel sash and trim, terra cotta trim, vault lights, ventilators, elevators; vault with 800 safety deposit boxes; Josias Pennington, Archt., Professional Bldg.

Md., Baltimore—Union Trust Company of Maryland let contract to Thos. Hicks & Son, 106 W. Madison St., to remodel and erect addition to building, York Rd. and Homeland Ave., for branch bank; Indiana limestone, 2 stories, about 40x40 ft., tile floors, stone foundation, slate roof; hot water heat, oil burner; furnishings, equipment, etc., \$5000; Smith & May, Archts., Calvert Bldg. See Want Section—Building Materials and Equipment. 5-26

Mo., St. Louis—Missouri Pacific R. R. Co., E. A. Hadley, Ch. Engr., let contract for \$2,500,000 office building to Humes-Deal Co., Syndicate Trust Bldg.; gray limestone and polychrome terra cotta, 22 stories with foundation for 8 additional stories, 100x193 ft., 230,000 sq. ft. floor space, 76 piers in foundation, 10 elevators, pneumatic tube system, 5 boilers and 3 electric generators in power plant; E. M. Tucker, owner's architect, and Mauran, Russell & Crowell, Chemical Bldg., are associate architects; foundation and first floor level contract previously let. 5-5

N. C., Elizabeth City — Hood Industrial Bank let contract to D. R. Scott to remodel building; brick and stone, 2 stories, 31x60 ft., built-up roof; Rudolph, Cook & Van Leeuwen, Archts., Arcade Bldg., Norfolk, Va.; plumbing, J. D. Fitchell, Locust St.; roofing, E. J. Cahoon & Co., both Elizabeth City. 5-26

N. C., Winston-Salem — Stockton Realty Co. erect 2-story building, Cherry St. near Fourth St., to be leased to Pilot Real Estate Co., Wachovia Bank Bldg.; Realty Bond Co., Contrs., 16 W. Third St.

Okla., Cheyenne—First State Bank let contract to Smiser Construction Co., 2300 N. Broadway, Oklahoma City, for \$15,000 building; brick, 1 story and basement, 25x70 ft., cement floors, concrete foundation, wood roof; Harry Reynolds, Archt., 1141 N. Robinson St., Oklahoma City; vapor heating not let. 5-26

Tex., Dallas—Z. E. Marvin erecting 4-story Marvin Bldg., Main and Akard Sts.; will add 6 additional stories to structure; steel work to fourth floor; fireproof, cost \$500,000; stores on first floor, offices above; Lang & Witchell, Archts., American Exchange Bldg.; Churchill-Humphry Co., Magnolia Bldg., Contr.; concrete and masonry work by C. L. Shaw, 767 S. Lamar St.

Tex., Dallas — Cary-Schneider Investment Co., 217 Medical Arts Bldg., Dr. E. H. Cary, let contract at \$420,000 to McKenzie Construction Co., Travis Bldg., San Antonio, for 17-story annex to Medical Arts Bldg.; sub-contracts not let; cost \$1,000,000; fireproof, brick, stone, terra cotta, steel and rein. concrete; Herbert M. Greene Co., Archt., 807 Santa Fe Bldg.; R. O. Jameson, Struct. Engr.,

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S. W. Life Bldg.; heating, Kinnison Bros.; electrical installations, Superior Electric Co.; plumbing, Martyn Bros. 5-12

Tex., Houston—Marine Bank & Trust Co., 908 Congress St., let contract to C. R. Berry Co., Post-Dispatch Bldg., to remodel quarters in Keystone Bldg.

Va., Danville—Southern Railway, G. L. Sifton, Ch. Engr., M. W. & S., Charlotte, N. C., let contract to John P. Pettyjohn & Co., Lynchburg, Va., for \$36,000 administration building; brick, concrete frame, 3 stories, 80.3x40.9 ft., concrete foundation; vapor system heat, C. W. Christian, Charlotte; electric work and plumbing in genl. contract. 5-12

Churches

Ala., Crichton—Springhill Avenue Methodist Church, Rev. Ernest A. Childs, Pastor, erect brick and stone auditorium under supervision of R. E. Sundberg; material purchased by Pastor; sub-contracts not let; type of heating not determined; 1 story, balcony and basement, slate roof, seat 500; Brodie & Sherman, Archts., Age-Herald Bldg., Birmingham. See Want Section—Building Materials and Equipment. (Noted 5-12 under Ala., Mobile).

Ark., Hamburg—Hamburg Baptist Church erect \$15,000 building; Nolley Bros., Contrs.

Fla., LaBelle—Methodist Church resumed work on building. Address The Pastor.

Ga., Savannah—Mickve Israel Congregation let contract to W. H. Artley Co., 504 E. Bay St., to repair burned synagogue, Bull and Gordon Sts.; cost \$25,000.

Md., Baltimore—Walbrook Evangelical Church let contract for \$70,000 Sunday school and passage, Gwynns Falls Pkwy. and Longwood St., to Jacob S. Loose, P. O. Box 1127, Harrisburg, Pa.; stone and concrete, slate roof, concrete floors, stone foundation; furnishings, equipment, etc., \$1000; Clayton Lappey, Archt., Park Side Bldg., Harrisburg; Raymond Ball, Engr., Carlisle, Pa. See Want Section—Building Materials and Equipment. 5-26

Md., Pikesville—St. Marks-on-the-Hill P. E. Church let contract to Thos. Hicks & Sons, Inc., 106 W. Madison St., Baltimore, for stone building; concrete floor slabs, 1-story, 105x50 ft., wood, stone and Zenithern floors, stone foundation, slate roof; cost \$58,000; furnishings, equipment, etc., \$7000; heating and plumbing, Patrick Garvey, Frederick Rd.; Taylor & Fisher, Archts., 1109 Union Tr. Bldg.; Henry Massart, Engr., 328 N. Charles St., both Baltimore. 5-5

Mo., St. Louis—St. Johns M. E. Church, J. W. Lewis, Chmn. Bldg. Comm., Federal Commerce Trust Bldg., let contract to Westlake Construction Co., Rwy. Exchange Bldg., for \$250,000 Sunday school, Kingshighway and Washington St.; Trueblood & Graf, Archts., 1517 Chemical Bldg.

N. C., Albemarle—West Albemarle Baptist Church, Rev. Richard L. West, Pastor, erecting \$50,000 building; 3 stories, 40x68 ft.; auditorium seat 1000; L. A. Moody, Contr.

N. C., Concord—St. James Lutheran Church, A. Luther Brown, Chmn. Building Comm., let contract for \$100,000 building to Blythe & Isenhour, Brevard Court, Charlotte; brick, stone trim, probably Indiana limestone, Gothic type, 81x100 ft., steel frame, slate roof, concrete floors, vapor steam heat; auditorium seat 480, balcony 125; Spencer & Phillips, Archts., 201 Fidelity Bank Bldg., Memphis, Tenn. 5-19

Okla., Ardmore—Broadway Baptist Church, Rev. W. Lee Rector, Pastor, let contract conditionally to R. J. Ridpath for \$125,000 building; brick and stone, 3 stories and basement; R. H. Hunt Co., Archt., S. W. Life Bldg., Dallas, Tex., and James Bldg., Chattanooga, Tenn. 3-31

Okla., Okmulgee—Baptist Church let contract to W. R. Grimshaw Co., Kennedy Bldg., Tulsa, for \$85,000 Sunday school; plumbing and heating in gen. contract; 62x85 ft., 3 stories; Edw. J. Peters, Archt., Shawnee. 5-26

S. C., Columbia—First Church of Christ, Scientist, erect \$25,000 Roman Doric type building, 1114 Pickens St.; 2 stories, 45x77.6 ft., Cayce rubble stone and hollow tile, red cement tile roof, 6 steel columns; Arthur Hamby, Archt., 1428 Main St.; J. T. Dabbs, Contr., 301 Saluda Ave.

Tenn., Philadelphia—Baptist Church erecting Sunday school addition; Jack Roberson, Contr., Loudon.

Tenn., Sparta—Church of Christ, Elder Jos. Netherland, Pastor, let contract to Lee Lumber Co. for \$35,000 building; brick and stone, 2 stories and basement, 86x53 ft.; Oehmrig & Nevins, Archts., 816 Ind. Life Bldg., Nashville. 5-26

Tenn., Union City—Cumberland Presbyterian Church let contract to W. M. Hill and

Frank Merryman, Fulton, Ky., for \$40,000 building; Tisdale, Stone & Pinson, Archts., 419 Ind. Life Bldg., Nashville, Tenn. 5-26

Tex., Dallas—Protestant Episcopal Church of the Incarnation, Rev. C. E. Snowden, Pastor, will let contract to A. J. Rife, 614 Largent St., for \$85,000 light brick parish house at first unit of building, McKinney and Trevel Ave.; electrical work, England Electric Shop, 1901 Elm St.; plumbing, Dallas church later; total cost \$300,000; Lang & Wittchell, Archts., Amer. Ex. Bk. Bldg. 6-2

Tex., Gainesville—Dixon Street Christian Church excavating for building. Address The Pastor.

Tex., Polytechnic, Fort Worth—Baptist Church let contract at about \$75,000 to C. L. Hudgens, 2607 Bomar St., Fort Worth, for Sunday school addition, Avenue E and Binkley St., Polytechnic Heights; steel frame, 4 stories, 68x96 ft.; Ferrand & Fitch, Archts., 701 Slaughter Bldg., Dallas.

Va., Richmond—First Baptist Church, W. S. Forbes, Chmn. Bldg. Comm., has let contract for \$400,000 church and Sunday school to John T. Wilson Co., Inc., Mutual Bldg.; Herbert L. Cain, Archt., Grace Securities Bldg., Richmond, and 1718 Cherry St., Philadelphia, Pa. 5-19

W. Va., Follansbee—St. Anthony's R. C. Church, Rev. Jas. Rogers, Pastor, erecting \$30,000 church and school, Raymond and Jefferson Sts.; brick and tile, 2 stories, 60x62 ft., wood floors, brick, tile and concrete footing foundation, composition and wood roof; proposals on furnishings, equipment, etc., \$5000, to Rev. Mr. Rogers; A. S. Craig Co., contract on cost plus basis; all materials purchased; vapor steam heating and plumbing, Roberts Plumbing Co., Wellsburg, W. Va.; brick and tile, David & John Simonetti; painting, Dewey Blakeley, both Follansbee; millwork, Scott Lumber Co., Bridgeport, O.; electrical work not let.

Va., Richmond—Branch Memorial Methodist Church erect \$12,000 Sunday school unit of \$75,000 building, 35th and P Sts.; brick; Chas. M. Robinson & Co., Archts.-Constr. Supervisors, Times Dispatch Bldg.; W. L. Ragland & Son, Contrs., Builders Exchange.

Va.-Tenn., Bristol—B'nai Shalom Congregation, Jos. Strauss, Chmn. Bldg. Comm., let contract for \$15,000 synagogue to J. W. Whited, Gate City, Va.

City and County

Ala., Birmingham—Gadsden Clay Products Co., Gadsden, Ala., has face brick contract for \$270,000 unit of municipal stadium; D. O. Whilldin, Archt., 515 N. 21st St., Birmingham; Jos. H. Cox, Const. Archt., Terre Haute, Ind.; Foster & Creighton Co., Contr., Seventh Ave. North, Birmingham. 5-12

Fla., Davenport—Town Council let contract for \$20,000 city hall to Streeter Bros., Lakeland; stucco, 2 stories; tile roof; 36.8x21.8-ft. council chamber; caretaker's apartment on second floor.

Fla., Largo—Pinellas County Board of Commrs., Clearwater, let contract for \$105,000 detention home to M. B. Welch, Inc., 504 Florida Theatre Bldg.; electrical work, T. E. Bennett, 2425 Fifth Ave., S., both St. Petersburg; heating and plumbing, Kaylor Plumbing Co., Inc., 2821 Morgan St.; roofing, West Coast Sheet Metal and Roofing Co., 1006 Tampa St.; painting, Progressive Painting Co., all Tampa; millwork, Heller Williams Lumber Co.; structure hollow tile and stucco, 2 stories, 200x200 ft., oak floors, cement foundation, tile and built-up roof; H. D. V. Pratt, J. Bruce Smith Bldg., St. Petersburg; E. Mardis, Engr., care Contr.; foundation in. 5-26

La., New Orleans—Geo. Davidson, 1674 N. Dupre St., has plastering contract for bathhouses, Audubon Park, to cost \$60,000 each; cast stone, Architectural Cast Stone Co., 8122 Colapissa St.; sheet metal work, Holzer Sheet Metal Works, Inc., 321 Burgundy St.; glazing, Pittsburgh Plate Glass Co., 314 Girod St.; painting, Gus. Peterson, 730 Valence St.; tile floors, New Orleans Tile Co., 314 Dauphine St.; tile roof, Horace White, 821 Carondelet St.; wiring, Sullivan & Phillips, 117 Decatur St.; hardware, Stauffer Eshleman & Co., Ltd., 511 Canal St.; steel framing and wire work for \$12,000 lion house to Jas. R. Sutton, Tulane-Newcombe Bldg.; plumbing, A. S. Chevis, 1136 Carondelet St.; roofing, Olympia Co., 321 Burgundy; Sam Stone, Jr. & Co., Archts., Masonic Temple Bldg.; L. A. Petty & Sons, Inc., Contrs., Godechaux Bldg. 6-2

N. C., Asheville—Buncombe County Board of Commrs., E. N. Lyda, Chmn., Bldg. Comm., let contract at \$1,242,189 to Angle-Blackford Co., Amer. Exchange Nat. Bank Bldg., Greensboro, for 14-story, basement and sub-basement courthouse and jail; 120x130 ft., steel and brick, granite, limestone and marble exterior,

ornamental columns, tile roof, marble, terrazzo and composition floors, metal casement windows, vapor heat, cell work, ventilating, 3 passenger and 1 freight elevator, bronze grill, special equipment; furnishings, equipment, etc., \$200,000; Milburn, Helster & Co., Archts., Hill Bldg., Washington, D. C. and First Nat. Bank Bldg., Durham, N. C.; electrical work, Webb Electric Co. at \$64,500; heating and plumbing to Sluder Bros. 5-12

Tex., Sweetwater—Bickley Bros., 710 Milam St., Houston, have contract at \$9940 for opera chairs for city hall.

Va., Princess Anne—Princess Anne County Board of Supervisors let contract to J. L. Smith, Walker Bldg., Portsmouth, for \$15,000 clerk's office addition to courthouse; steel, floors and foundation, slate roof; Bernard E. brick, stone and concrete, 1 story, concrete Spiegel, Archt., 148 Granby St.; electrical work, F. W. West Electric Co., 121 W. Charlotte St.; stone front, Consolvo & Overmyer, 22nd St.; steel, Globe Iron Construction Co., 706 W. Olney Rd.; lumber and millwork, C. M. Baylor Co., 209 Brambleton Ave., all Norfolk; heating and plumbing, Osie Dashiell & Son, 507 South St.; brick work, H. Cross; plaster, W. H. Schrodes; roofing, C. G. Dennis, 115 Wythe St.; painting, E. P. Twilley, 614 Middle St.; building material, McLean-Butt Fuel Co., 119 First St., all Portsmouth; building material, Farmer Supply Co., Virginia Beach. 6-2

Dwellings

Ala., Andalusia—J. T. Tilley erecting frame residence; 2 stories, 35x40 ft., cedar shingle siding and roof, tile bath; F. W. Carter, Archt., 29 Burton St., Montgomery; day labor.

Ala., Birmingham—R. E. Lowrey, care J. E. Salle, Archt., 2223 Age-Herald Bldg., erect brick veneer residence, Redmont Park; 2 stories and basement, 35x40 ft., slate roof, steam heat, 3 tile baths; day labor.

Ala., Hollywood—J. V. Pyron, care J. E. Salle, Archt., 2223 Age-Herald Bldg., Birmingham, erect brick veneer residence; 1 story, 46x50 ft., composition roof, tile bath, furnace heat; day labor.

Ala., Montgomery—Harry Bandy, 902 Felder Ave., erect \$20,000 residence, Allendale sub-division; brick and hollow tile, 2 stories; J. L. Fulgum, Contr., 420 Perry St.

Ala., Montgomery—T. F. Leak, care Leak Undertakers, 222 Madison St., erect \$22,000 residence, Cloverdale, brick veneer, 2 stories, 55x65 ft., hardwood floors, composition roof, steam heat, tile baths; Okel & Cooper, Archts., Shepherd Bldg., Anderson Lumber Co., Contr., 1420 N. Court St.; plumbing and heating, Anderson Plumbing & Heating Co., Dexter Ave.

Ark., Hot Springs National Park—H. Fellheimer, 404 Central Ave., let contract to R. Higgins for brick veneer residence; 2 stories, concrete foundation, tile roof; Sanders & Ginochello, Archt., Hall Bldg., Little Rock; vapor heating and plumbing, Chas. Schraeder, Hot Springs. 5-26

D. C., Washington—Cafritz Construction Co., 4507 Fifth St., N. W., erect 18 brick dwellings, 309-37 Emerson St. and 401-05 Fifth St., N. W., 2 stories, brick; total cost \$108,000.

Fla., Bushnell—E. N. Page, Pres., Bushnell Lumber and Supply Co., started work on \$12,500 residence; brick and hollow tile; Mr. Walker, Contr.

Fla., Jacksonville—Miss L. D. Hoover, care Buckman & Ulmer, 212 W. Forsyth St., completed foundation for brick veneer duplex; 2 stories, 70x38 ft., oak floors, asbestos shingle roof hip roof; Marsh & Saxelby, Archts., Consolidated Bldg.; O. P. Woodcock Co., Contr.-Engr., 302 Lutz Bldg.; heating and plumbing, Hooker & Lightbody Co., 755 Odessa St.; millwork, Warren Huckins Co., Fourth and R. R.; stone work, Jacksonville Concrete Products Co., Riverside Ave.

Fla., Miami Beach—J. F. Ambros Co., 1105 Fifth St., has electrical work contract for \$10,000 residence for John Hertz; plumbing, Alex. Orr, Jr., 45 N. W. Third St., Miami; John Bullen, Archt. Exchange Bldg.; Beach Construction Co., 1327 Twentieth St., both Miami Beach.

Fla., Miami—Alfred C. Yates started work on \$16,000 residence, Hollywood Beach Heights sub-division.

Fla., Miami—Geo. E. Batcheller, Inc., Laidlaw Blvd., has permit for \$20,000 dwelling, Bianca St.

Fla., Miami—Lawrence K. Cone, 479 N. E. 30th St., let contract to Geo. W. Witter & Co. for \$36,000 residence and \$15,000 garage; concrete, 2 stories, 3 baths; electrical work, Pullen Zoll; plumbing, Harris Bros. Plumb-

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

ing Co., Inc., 139 N. E. Second Ave. Address Owner. 5-26

Fla., Pensacola—Max J. Kahn, 108 W. Strong St., and Harry Kahn, 820 N. Barc St., erect 2 dwellings, Gonzales St., near Reus St.; cost \$5500 each; Boyd & Coe, Contractors.

Fla., Tampa—C. T. Ansley, 1916 Dekle Ave., let contract to B. F. Walker & Sons, 315½ Franklin St., for \$36,000 brick residence, 8 Newport Ave.; 2 stories; Francis J. Kennard & Sons, Archts., 303 Zack St. 5-26

Fla., Tavares—Co-operative Builders erecting 4 dwellings, Koch Terrace; cost \$3000 each; additional dwellings as required.

Ga., Atlanta—Crockett Plumbing Co. has steam heating and plumbing contract for \$12,000 residence for C. E. Miller; Atlanta Trust Co. Bldg.; electrical work, Dixie Electric Co., 127 Spring St., plans and construction by owner. See Want Section—Building Materials and Equipment. 5-26

Ga., Augusta—Wm. Schweigert, 846 Broad St., erect \$12,000 residence, 2221 Kings Way; 2 stories, brick veneer and hollow tile, 6 rooms; W. O. Hallman, Contr.

Ga., Elberton—Seaboard Silk Mills let contract for 46 additional dwellings to Batson Co., West Point, Ga.; Robert & Co., Inc., Engr., Bona Allen Bldg., Atlanta, Ga.

La., New Orleans—Thos. J. Paddock, 4521 Laurel St., erect raised single dwelling, S. Salcedo St. near Vincent St.

La., New Orleans—John W. Hymel, 2800 St. Bernard Ave., erect single dwelling, London Ave. near New Orleans St.

La., New Orleans—Edgar Lescale erect double cottage, Miro St. near Touro St.; P. Perrilloux, Contr.

La., New Orleans—Thos. Merritt, 1831 Terpsichore St., erecting double cottage, 2054-56 Fountain St.

La., New Orleans—Peoples Homestead Assn., 327 St. Charles Ave., erect \$11,000 duplex, Louisiana Ave. Pkwy. and Dorgenois St.; 2 stories; Kenneth J. Colomb, Contr., 3522 Louisiana Ave.; also dwelling Jena and Lopez Sts.

La., New Orleans—Saml. A. Byrne erect \$16,500 raised residence, Iberville and Blenville Sts.; J. J. Lagarde, Contr., Canal Commercial Bank.

Md., Baltimore—Baltam Realty Co. let contract to Peyton B. Strobel Co., Munsey Bldg. for \$30,000 dwelling, Overhill Rd. near Rugby Rd., Guilford; stucco and stone, 2 stories, 9 rooms, 3 baths.

Md., Baltimore—Chester P. McFadden, 1614 Park Ave., erect Spanish type residence, Sheffield Road, Stoneleigh; 7 rooms and bath; Peyton B. Strobel Co., Contrs., Munsey Bldg.

Md., Baltimore—J. H. Grinnell erect 4 brick dwellings, 4300 block Keswick Rd.; 2 stories, 26x35 ft., slate roofs; total cost \$10,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Irvin M. Hudgins, 3109 Windsor Ave. has broken ground for Colonial residence, Buckingham Rd.

Md., Baltimore—Cary R. Wilson, Commerce Trust Bldg., erect \$16,000 brick residence, 4623 Springlake Way; 2½ stories, 49x55 ft., slate roof, hot-water heat; Fredk. Thomas, Archt., 726 E. 33rd St.; Major Engineering Co., Contrs.

Md., Baltimore—Gunn & Orrick Co., Inc., 306 N. Charles St., erect \$10,000 frame dwelling, Witherspoon Rd. and Purlington Way; 2½ stories, 25x25 ft., slate roof, hot water heat; C. H. Hebrank Archt., 3 E. Lexington St.; Jas. L. Hooper, Contr., Gwynn Oak and Lillian Aves.

Md., Baltimore—Robinson & Slagle, Belvedere and Roland Aves., erect 3 brick dwellings, 702-06 Belvedere Ave. and 1506 Normandy Place; 3 stories, 41x29 ft., 43x29 ft. and 38x25 ft., hot water heat; total cost \$30,000; plans and construction by owner.

Md., Baltimore—A. J. Will, 509 W. Lombard St., erect \$16,000 brick residence, Highland St. near St. Paul St.; 2½ stories, 28x43 ft., slate roof, hot water heat; M. E. Donaldson, Archt., 2209 Mondawmin St.; Henry C. Glantz, Contr., Plaza Apt.

Md., Baltimore—Webster & Garner erect 12 brick dwellings, N. side Woodland Ave. near Reisterstown Rd.; 2 stories, hot-water heat; total cost \$35,000; W. C. Johnson, Archt.; owner builds.

Md., Baltimore—J. H. Purnell, Cold Spring Lane, erect 2 brick dwellings, 4301-03 Keswick Rd.; 2 stories, 26x35 ft., slate roofs; total cost \$10,000; Geo. Wessel, Archt., 601 W. 40th St.; owner builds.

Md., Baltimore—Pall-Mall Construction

Corp. erect 10 brick dwellings, N. E. cor. Pall-Mall Ave. and Loyola Southway; 2 stories, 20x32 ft., hot-water heat; total cost \$25,000; H. Bart, Archt., 4640 Old Pimlico Rd.; owner builds.

Mo., Kansas City—F. H. Beets, 5117 Garfield St., erect 5 brick dwellings, 5101-15 Highland St.; 1 story, 22x42 ft.; total cost \$15,000; owner builds.

Mo., Kansas City—Hayes & McKeever, 5014 Walnut St., erect 2 frame dwellings, 41-45 W. Dartmouth Rd.; 2 stories, 30x30 ft.; total cost \$11,000; owner builds.

Mo., Kansas City—H. V. Smith, 63rd and Brookside Blvd., erect \$15,000 residence, 820 Greenway Terrace; 2 stories, 62x37 ft., brick and stucco; owner builds.

Mo., Kirkwood, St. Louis—Alfred Zeller, 4928 Loughborough St., erect \$10,000 residence, Rose Hill and Kirkwood Rds.; brick and stone, 1 story and basement, 29x33 ft., hardwood floor, shingle roof, concrete foundation, tile bath, hot-water heat; E. G. Mattleson, Contr., 3517 Itaska St.

Mo., St. Louis—C. H. Bayless, Pres., Traymore Homes Syndicate, erecting Spanish type residence, Traymore Homes, Inc.; Manske & Bartling, Archts.

Mo., St. Louis—Geo. F. Seibert, 5952 Ridge St., erect \$12,000 brick residence, Pennsylvania St. near Clayton Rd.; 2 stories and basement, 27x33 ft., slate roof, hardwood floors, tile bath, hot-water heat; W. P. McMahon, Archt., 819 Buder Bldg.; Edw. Dilschneider, Contr., 5763 Easton Ave.

Mo., St. Louis—P. J. Fleming, 1401 Good-fellow St., erect 3 brick dwellings, 4210-12-16 Shreve St.; 2 stories, 25x30 ft., paper shingle roofs, hot air heat; total cost \$10,500; plans and construction by owner.

Mo., Clayton, St. Louis—Meyer & Comfort, Inc., Seven Gables Bldg., erect 2 frame dwellings, Clerkmont Park and Exermont; 20x60 ft.; total cost \$15,000; owner builds.

Mo., Clayton, St. Louis—Donald S. Sharpe, 41 Arundel Place, remodel residence, Country Life Acres; cost about \$10,000; owner builds.

Mo., University City, St. Louis—Sedgeley Investment Co., 111 N. Seventh St., erect \$12,000 brick dwellings, 7470 Stratford Ave.; 2 stories and basement, 29x31 ft., hardwood floors, slate roof, tile baths, hot-water heat, garage; Nolte & Nauman, Archts., 614 Fullerton Bldg.; owner builds.

Mo., University City, St. Louis—Leta Sands, 6521 Crest St., erect \$10,000 brick, tile and stucco residence, 421 Alta-Dena Court; 2 stories and basement, 44x27 ft., concrete foundation, hardwood floors, tile roof and bath, hot-water heat; R. E. Schumacher, Archt., 4918 Spalding St.; H. H. Perstrup, Contr., 7324 Westmoreland St.

Mo., University City, St. Louis—Leo F. Abrams, 1124 Chemical Bldg., erect \$18,000 brick residence 6951 Delmar Blvd.; 2 stories, 60x41 ft., composition and slate roof, steam heat; plans by owner; Carl F. Schloeman, Contr., 1253 Amherst Place.

Mo., University City, St. Louis—Warne & Jannopoulos, Conner Bldg., 6625 Delmar Blvd., erect 2 brick dwellings, 7535-43 Gannon Ave.; cost \$7500 each, 2 stories, 24x28 ft., composition shingle roofs, hot water heat; Raymond E. Schumacker, Archt., 4718 Spalding St., Wagner Realty & Construction Co., Contr., Manchester and Rock Hill Rds.

Mo., Webster Groves—M. Eschenberg, 1414A S. 12th St., erect frame residence; 1 story and basement, 33x52 ft., concrete foundation, cement tile roof, tile bath, hardwood floors, hot-air heat; Clarence A. Koenig, Archt., 2036A Russell.

Mo., West Plains—B. F. Wood, care Reed-Harlin Grocer Co., erect Colonial residence; hot water heat, oil burner; by owner; electrical work, City Light & Power Co.; plumbing, Riley & Palmer; decorating and painting and rigid asbestos shingle roofing not let; Earl Hawkins, Archt., McDaniel Bldg., Springfield. Address Owner. See Want Section—Building Materials and Equipment. 6-2

N. C., Charlotte—Frank Hovis, 407 N. Poplar St., erect \$12,000 residence, 508 N. Tryon St.; Franklin Gordon, Archt.; R. D. McRee, Contr.

N. C., Charlotte—Dr. L. W. Hovis, Professional Bldg., erect \$12,000 residence, Berkely Drive; 8 rooms; Franklin Gordon, Archt., 12 Vail Ave.; R. D. McRee, Contr., Brevard Court.

Tenn., Knoxville—J. H. Anderson, 1405 Chilhowee Ave., let contract to B. T. Thomas Co. to rebuild burned residence, Circle Park; cost \$21,000. 3-17

Tenn., Memphis—Dr. H. C. Johnson, Union & Planters Bank Bldg., let contract to L. L. Diehl, 1663 Forrest St., for \$10,000 brick

veneer residence, Buena Vista Place; 1 story and basement, 45x60 ft., composition shingle roof, oak floors, hot water heat, tile bath, garage; Estes W. Mann, Archt., Cotton Exchange Bldg. 5-26

Tenn., Signal Mountain—Williams Point Development and Construction Co. organized (Michigan interests); drawing plans for 25 to 30 dwellings, S. Palisades Drive; work on 5 to start within few days; plan to expend \$250,000 to \$500,000 within 2 years; material from Hamilton County Lumber Co., 1203 Greenwood Ave., Chicago; James Verhey, Supvg. Archt., Volunteer Bldg., Chattanooga, Tenn.

Tex., Asherton—W. F. Wroe let contract for \$15,000 residence to Moeller & Weibacher, San Antonio; hollow tile and stucco, 1-story, 7 rooms; Herbert S. Green, Archt., Alamo Bank Bldg., San Antonio. 5-26

Tex., Corpus Christi—J. T. Cross, Lovenskold Bldg., plans 5 dwellings; cost \$5000 each, frame, 1 story, 26x54 ft., day labor.

Tex., Dallas—Cullen F. Thomas, Magnolia Bldg., started work on \$75,000 residence, Hunter's Glenn Rd., Glenview Lane, University Park Estates; Southern Colonial type, red brick walls, white stone trim, gray slate roof, 3 baths, built-in mahogany shelving for 6000 books, warmed, filtered and humidified air ventilating and heating system; Bertram C. Hill, Archt., Const. Indus. Bldg.; A. J. Rife, Contr., 614 Sargent St.

Tex., Dallas—A. D. Hawley, 323 N. Waverly St., let contract to P. K. Ruckel, 1010 N. Windomere St., for \$12,000 residence, 1201 Louisiana Ave.; brick, 2 stories, 75x22 ft., hardwood floors, concrete foundation, slate roof; Geo. H. Dahl, Archt., 805 Santa Fe Bldg.; hot water heating and plumbing, C. Wallace Plumbing Co., 2224 Summer St.; electrical work, W. R. Grace Engineering Co., Kirby Bldg. 5-26

Tex., Galveston—John F. Reed started work on Tudor type residence, Cedar Lawn; 2 stories; Andrew Fraser, Archt.; J. W. Woodruff, Contr., 3801 ½ St.

Tex., Houston—W. W. Porch erecting Colonial residence, Del Monte Drive, River Oaks; concrete tile and stucco, 2 stories, 9 rooms; Chas. W. Oliver, Archt. Constr. Supervisor, River Oaks Bldg.

Tex., Houston—C. J. Wright, 416 Hathaway St., let contract for \$17,500 duplex, Yupon and Bonnie Brae Sts., to C. C. Rhodes, 1903 Commonwealth St.; brick veneer, 2 stories, 6 rooms and 2 baths, slate roof, 2 stories 6 rooms and 2 baths each; slate roof, gas-steam heat, Frigidaire.

Tex., Houston—Wm. F. Leopold, 3502 Louisiana St., erect \$16,000 residence, 1636 North Blvd.; brick veneer, 2 stories, 10 rooms; Franklin Building Co., Contr., 914 Franklin St.

Tex., Olmito—Lloyd Parker let contract for \$20,000 residence to E. G. Holliday Co., Brownsville.

Tex., Pecos—N. G. Cavazos erecting \$30,000 residence.

Hospitals, Sanitariums, Etc.

Fla., Tampa—City Commission, W. Lesley Brown, City Mgr., let following contracts for equipment for \$1,250,000 municipal hospital, Davis Islands: Kitchen equipment, \$13,000, and flat and hollow silverware, glass, china and aluminum, \$7604, to Tampa Hardware Co., \$13,000; electric light fixtures, Graybar Electric Co., Inc., 416 Ellamac St., \$5779; electric fans, McGahy-Jobe Electric Contractors, \$1384; scalytic light, Tampa Surgical Supply Co., Hillsboro Hotel, \$240; steel lockers, Tampa Book & Stationery Co., 201 Franklin St., \$363; linens, Bentley-Gray Dry Goods Co., 700 Zack St., \$2954; Dawson & Thornton Dry Goods Co., 905 Twiggs St., \$2043; Tampa Hardware Co., Polk and Magan Sts., \$291, and R. K. Rambo, \$86; general furnishings, Tarr Furniture Co., Tampa and Madison Sts., all Tampa, \$30,500; magnet, Kny-Scherer Co., 119 Seventh Ave., New York, \$628; toilet equipment, T. P. Eustis Manufacturing Co., \$777; sterilizing equipment, American Sterilizing Co., Erie, Pa., \$6272; bronze tablets, T. F. McGann & Sons Co., 114 Portland St., Boston, Mass., \$546; screens, Watson Manufacturing Co., Jamestown, N. Y., \$1700. X-ray equipment, to cost \$10,500, not yet purchased; M. Leo Elliott, Inc., Archt., Citizens Bank Bldg.; Stevens & Co., Conslt. Archts., 45 Newberry St., Boston, Mass.; Fleischer Engineering & Construction Co., Contr., 1529 Grand Central Ave., Tampa. 5-5

Miss., Jackson—State Hospital Removal, Improvement and Land Sale Commission, R. L. Brown, Sec., Box 40, let contract at \$14,000 to E. W. Cook Electric Co., Century

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Bldg., for electric distribution system for \$4,500,000 Mississippi Insane Hospital; N. W. Overstreet, Archt., Miss. Fire Bldg.; Henry C. Muskopf, Landscape Archt.-Engr., 864 Newport Ave., St. Louis, Mo. 5-19

Miss., Jackson—State Hospital Removal, Improvement and Land Sale Commission, R. L. Brown, Box 40, let contract to Otis Elevator Co., 852 Carondelet St., New Orleans, La., for 2 elevators for \$4,500,000 Mississippi Insane Hospital, plumbing to S. S. Richard, Franklin, La., for hospital building, receiving building, dining hall, officials' building, 2 convalescents' cottages and 2 attendants' cottages; Mr. Richard also has contract to complete heating in hospital and receiving buildings; Warburton-Beacham Supply Co., 105 W. Capitol St., Jackson, has heating contract for 2 attendants' cottages, dining hall, officials' building; Peters Heating Co., 121 S. President St., Jackson, has contract to complete heating for 2 convalescents' cottages; Michaels & Co., Inc., Board of Trade Bldg., Norfolk, Va., for wiring for 2 convalescents' cottages, officials' building, 2 attendants' cottages; Century Electric Co., Century Bldg., Jackson, has complete wiring contract for hospital building, receiving building, dining hall; 11 buildings under construction; N. W. Overstreet, Archt., Miss. Fire Bldg.; Jackson; Henry C. Muskopf, Landscape Archt.-Engr., 864 Newport Ave., St. Louis, Mo. 5-12

Mo., Poplar Bluff—Missouri Utilities Co. has wiring contract for \$50,000 hospital for Dr. W. L. Brandon; Ivan Greer, Archt.; Greer Construction Co., Contr. 3-3

N. C., Winston-Salem—I. W. Pack, Contr., erecting apartment house on W. 14th St. for L. W. Lackey.

Okl., Shattuck—Dr. O. C. Newman erect \$40,000 hospital; brick, stone and rein. concrete, 2 stories and basement, 40x91 ft.; R. H. Stoddard, Archt., American Nat. Bldg., Oklahoma City; H. H. Dohe, Contr., Okeene.

Okl., Tulsa—J. B. Klein Iron & Foundry Co., 1002 W. Second St., Oklahoma City, has rein. steel contract for \$500,000 Morningside Hospital, 12th and Utica Sts.; P. W. Redfield, Archt., Stillwater; Dan Tankersley Construction Co., Contr., Sapulpa. 5-5

Tex., Austin—Seton Infirmary let contract for \$150,000 nurses' home to J. E. Blackmore, 205 E. Live Oak St.; electrical work, Harper & Linscomb Plumbing & Electric Co., 204 W. 13th St., \$6000; plumbing and heating contract also let; brick, hollow tile, rein. concrete, native stone trim, 3 stories & basement, 161x41 ft. with 70x40-ft. auditorium extension in rear; accommodate 88 nurses; auditorium seat 400; O'Meara & Hills, Archts., 1705-11 Arcade Bldg., St. Louis, Mo.; G. E. Quick, Supv. Engr., Austin. 5-19

Va., Colony—State Colony for Epileptics and Feeble Minded, Dr. J. H. Bell, Supt., let contract at \$14,200 to W. T. Jones, 212 Tenth St., Lynchburg, for rebuilding burned power house and laundry.

Hotels and Apartments

Ala., Birmingham—Sherwood Moore, 2105 Third Ave. N., started work on two 3-story, brick, 18-unit apartment houses; \$125,000.

Ala., Birmingham—A. M. and T. N. Tharpe erecting 3-story, brick, 14-family apartment building; owners build.

Fla., Miami—Roy Carnahan, Canton, Ohio, erecting 5 apartment houses, N. W. cor. N. W. First Ave. and 15th St., each 4 units; cost \$12,500.

Ky., Ashland—Rust Engineering Co., 311 Ross St., Pittsburgh, Pa., let following sub-contracts on \$500,000, 8-story Henry Clay Hotel: Excavation; Hunt Forbes Construction Co.; sand and gravel, Wheeler & Putnam; Portland cement, Ben Williamson Supply Co.; all Ashland; testing materials, Robert W. Hunt, 175 W. Jackson Bl., Chicago, Ill.; architectural terra cotta, Atlanta Terra Cotta Co., East Point, Ga.; granite, Cold Spring Granite Co., Cold Spring, Minn.; cut stone, John Diebold & Sons Stone Co., 819-27 S. 16th St., Louisville; steel floor forms, F. B. Herendeen, 17th St. and B. & O. R. R.; glass and glazing, Central Glass Co., 20th St. and Second Ave.; structural steel, miscellaneous iron and ornamental iron, James J. Weiler & Sons, 202 Elm St.; reinforcing steel, West Virginia Rail Co.; all Huntington, W. Va.; Moosmiller & Johnson, Archts., Kenyon Bldg., Louisville. 4-28

Miss., Tylertown—Rimes Investment Co., J. C. Rimes, Pres., let contract to George L. Whitaker, for \$30,000, 2-story and basement, 50x100 ft., brick, plastered interior hotel and restaurant on Beulah Ave.; brick and concrete foundation; plans by Contr. 5-12

Mo., Clayton, St. Louis—Sam Hamburg, Jr., 18 N. Eighth St., erect four 40x45 ft., 4-family flats, 6612-24 San Bonita St.; \$72,000; E. A. Wagner, Builder.

Mo., Clayton, St. Louis—Emile G. Wagner, 18 N. Eighth St., erect \$15,000, 27x45 ft., 3-family apartment at 6334 Southwood Ave.; E. A. Wagner, Builder.

Mo., Clayton, St. Louis—Wilson & Koontz, Inc., 18 N. Eighth St., erect \$35,000, 65x45 ft., 6-family apartment house at 6330 Southwood Ave.; E. A. Wagner, Archt.-Builder.

Mo., St. Louis—C. A. Rieger, 1554 Bell Tel Bldg., let contract to Ace Realty & Building Co., 1554 Bell Telephone Bldg., for two 2-story, 24x46 ft., brick tenements, 5085-9 Kingshighway; \$10,000, composition roofs, hot water heat.

Mo., St. Louis—A. M. Heinichen, 3823 Mera-mec St., let contract to Heinichen Construction Co., same, for six 2-story, brick, 19x47 ft. tenements, 3807-23 Alberta St.; \$30,000, tar and gravel roofs, hot-air heat; W. F. Cassidy, Archt., 5317 Devonshire St.

Mo., St. Louis—C. E. Dackel, 6117 Gravois St., erect two 2-story, brick, 27x48 ft. tenements, 3012-18 Filmore St.; \$12,000, asphalt shingle roof, hot-water heat; P. J. Bulla, Archt.-Builder, 5701 Dewey St.

Mo., St. Louis—L. Grossberg, 510 Central Natl. Bank, erect \$15,000, 2-story, brick, 32x134 ft. tenement, 4150-8 S. Ferdinand St.; composition roof; P. Roothorla, Archt., 510 Central Natl. Bank; owner builds.

Mo., St. Louis—Alco Investment Co. let contract to V. A. Chinberg, both 808 Chestnut St., for \$70,000, 3-story 50x111-ft. brick tenement at 5617 Cabanne St.; composition roof, steam heat; O. J. Popp, Archt., Arcade Bldg. 6-2

Mo., St. Louis—Mars Realty Co., 209 International Life Bldg., let contract to H. H. Sims, 5006 Natural Bridge, for five 2-story, brick, 25x45-ft. tenements, 5614-26 Ashland St.; \$30,000, composition roofs, hot air heat.

Mo., St. Louis—E. Neyroth, 4037 Lucky St., let contract to Neuroth & Lindner, 3550 Olive St., for \$12,000, 27x40-ft., 2-story brick tenement, 5831 Terry St.; composition roof, hot water heat.

Mo., St. Louis—E. F. O'Toole, 7935 N. Broadway, let contract to W. H. Smith Co., 110 N. Seventh St., for \$15,000, 68x49-ft., 2-story brick tenement, 7937 N. Broadway; composition roof, hot air heat; E. J. Gleaser, Archt., 42 DeMenil Bldg.

Mo., St. Louis—Pomeroy Construction Co., 706 Chestnut St., erect \$50,000, 3-story, brick, 80x161-ft. tenement, 6226-34 Oakland St.; composition roof, furnace heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—West End Realty & Construction Co., 3416 Union St., erect eight 2-story, brick, 34x50-ft. tenements, 4928-60 Mardel St.; \$76,000; tar and gravel roofs, steam heat; owners are Archts.-Builders.

Mo., St. Louis—S. Gallop, 1010 Chestnut St., erect \$30,000, 2 and 3-story, brick, 25x48 ft. tenements at 4920-4 Chippewa St.; composition gravel roofs, steam heat; L. C. Scatizzi, Archt.-Builder, 6216 S. Drive.

Mo., St. Louis—P. P. Mason, 220 Wainwright Bldg., let contract to W. J. McCully, 802 Chestnut St., for two 2-story, 27x37 ft., brick tenements, 6119-21 Vermont St.; \$12,000, slate surfaced shingle roofing, hot-air heat; E. F. Kraft, Archt., 220 Wainwright Bldg.

Mo., St. Louis—L. K. Milberger, 5212 Murdoch St., let contract to F. C. Slipp, 5142 Rosa St., for \$25,000, 2-story, brick, 48x113 ft. tenement, 4256 Oregon and 2817-35 Charlton Sts.; gravel roof, hot-air heat; plans by owner.

Tenn., Chattanooga—John S. Twinam, Twinam Apts., erecting apartment building on Walnut between Third and Fourth Sts.; Stewart Construction Co., Feger Bldg., are Archts. and Contrs.; Key-James Brick Co., Alton Park, furnishing texture face brick. 6-2

Tenn., Copperhill—W. H. Chaney erecting 2-story, brick hotel building.

Tex., Austin—H. B. Marshall let contract to Ed Walker, at \$12,415, for 2-story, brick apartment house at 2808 N. Guadalupe St.; plumbing to John L. Martin, 410 Congress Ave., \$1687; electric wiring, Charles Spreen, 106 W. 19th St., \$608; Roy L. Thomas, Archt., 906 Littlefield Bldg.

Tex., Bay City—Parla Smith let contract to H. A. Miller, Builders Exchange Bldg., San Antonio, at \$46,598, for 3-story, 50-room, reinforced concrete, brick, hollow tile and cast stone trim hotel building; wiring, Travis Electric Co., Medical Arts Bldg., \$1994; plumbing, Fred Geyer, 729 E. Houston St., at \$7067; heating, A. H. Shafer, 418 N. St. Mary's St., \$3325; Morris & Noonan, Archts., Builders Exchange Bldg., all San Antonio. 4-14

Tex., Corpus Christi—Nueces Hotel let following contracts to San Antonio Machine & Supply Co., 102 S. Chaparral St., for 6-story

addition; refrigerating equipment at \$16,450; steam generators at \$12,586; mechanical and electrical equipment at \$10,739; laundry equipment to American Laundry Machine Co., at \$13,824; Adams & Adams, Archts.; W. C. Thrallkill, Gen. Contr., both Builders Exchange Bldg., San Antonio. 5-19

Tex., Houston—T. Slaughter let contract to C. B. Glover for \$20,000, 2-story, brick veneer apartment house at 1919 Westheimer Road; composition shingle roof.

Tex., Houston—James E. Smith, Pub. Natl. Bank Bldg., has contract for \$25,400, 2-story, brick veneer apartment house 429 Hawthorne, in Westmoreland; 8 apartments of 4 rooms and bath.

Tex., Mission—A. L. Douglas, Mgr., Mission Hotel, let contract to Hidalgo Lumber Co. for addition to hotel; 23 rooms with baths, piped for natural gas, steam radiators; C. A. Rainwater, Archt.; electrical work, Richards Electric Co.; plumbing, Potter Plumbing Co. 5-19

Tex., San Antonio—Oscar Kuehne, 2401 W. Travis St., let contract to H. H. Clark, 132 Rigby Ave., for 2-story, brick veneer, 4-suite apartment house; address inquiries to Albaugh & Steinbomer, Archts., 941 Austin St.

Tex., San Benito—C. E. Milner let contract to Scholes & Scholes for Spanish, type, stucco, duplex apartment house.

Tex., Weslaco—Charles M. Sherrill and C. L. Swaggs let contract to John Bennett, for \$12,000 apartment house; R. Newell Waters, Weslaco, and Ralph H. Cameron, City Natl. Bank Bldg., San Antonio, Asso. Archts. 5-5

Va., Norfolk—James Elliott erect \$40,000, 3-story, brick, 18-family apartment building at 524-6 Thirty-first St.; owner to supervise work.

Va., Norfolk—Norwalk Apartment Co. let contract to E. E. Weedle & Co. for brick apartment building on Brandon Ave.; Phillip B. Moser, Archt., Law Bldg.

Va., Norfolk—Yorkshire Apartment Corp. let contract to Blaine-Graham Construction Co., Inc., for 18-family apartment house on Spottswood Ave.; A. O. Ferebee, Archt., both Arcade Bldg.

Va., Richmond—Granby Building Co., Inc., 1716 Summit Ave., erecting \$35,000, 76x32 ft., brick apartment building at 206-8 Rosemeath Road; heating to Pemberton & Benson, 311 E. Main St.; plumbing, Eanes & Co., 1305 W. Main St.; electric work, W. B. Jennings, 2410 Floyd Ave.; painting, J. A. Niedermayer, 805 N. Robinson St.; iron work, Gruckshanks Iron Works, Dineen St.; plastering, N. C. Davis, 1716 Summit Ave.; L. Otis Splers, Archt.; Davis Bros. Inc., Contrs.; both 1716 Summit Ave. 4-28

Miscellaneous

Ga., Griffin—Lyndon S. Patterson let contract to Robert Wheaton & Sons for building on E. Solomon St. for Halsten Brothers' funeral home.

La., New Orleans—New Orleans Zoological Society let contract to J. A. Petty & Sons, Godchaux Bldg., for \$11,983 lion house and yards at Zoological Garden, Audubon Park.

Mo., St. Louis—J. J. Glennon let contract to E. A. Noser, 9027 Camden St., for \$21,000, 1-story, 90x75 ft. hall at 5629 S. Magnolia St.; asphalt shingle roof.

S. C., Charleston—Yeaman's Hall, care E. W. Durant, Peoples Bldg., let contract to T. W. Worthy, for \$120,000 clubhouse. 3-31

Tex., Sonora—Woman's Club let contract to J. T. McClelland, for \$10,000, tile and stucco, Spanish type library building; private plans.

Railway Stations, Sheds, Etc.

Fla., Monticello—Atlantic Coast Line Railway Co., J. E. Willoughby, Ch. Engr., Wilmington, N. C., laying foundation for depot.

Schools

Ala., Huntsville—Board of Education let contract to Ben F. Gildwell, for \$20,000 negro school building.

Ala., Rogersville—Lauderdale County Board of Education, A. E. Springer, Supt., Florence, let contract to Athens Lumber Co., Athens, for rebuilding burned High School building. 4-21

Ala., Tuscaloosa—Tuscaloosa County Board of Education, J. B. Sellers, Supt., erecting 109x58 ft., frame school building at Samanthia; brick foundation, pine floors, cost \$8500, equipment and furnishings \$2000; 4 classrooms art rooms, domestic science room, 3 halls and 3 porches; Delco system lighting; J. Woods, ceilings; J. Nash, storm sheeting and flooring; both Tuscaloosa; Woodberry

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

heaters to Educational Exchange, First Ave., Birmingham; J. Ledbetter, Archt.; O. W. Osment, Contractor, 706 South 25th St., Birmingham. 5-5

Ark., Egypt—Egypt Special School District let contract for \$15,000 school to Burton & Ballew, Jonesboro; brick, 1 story, 97x111 ft., wood floors, concrete foundation; address proposals on furnishings, equipment, etc., to J. W. Lawrence, Egypt; \$4000; E. J. Wolpert, Archt., Jonesboro; steam heating and Delco lighting system not let. 5-19

Ark., Fayetteville—University of Arkansas let contract to Arkansas Foundry Co., Foot E. Sixth St., Little Rock, for steel bleachers at athletic field; \$13,500.

Ark., McGehee—Board of Education let contract to J. D. Beack, Arkadelphia, at \$59,500, for new High School Building.

D. C., Washington—District Commissioners, Room 509 District Bldg., let contract to Skinner & Garrett, 1415 F Street, N. W., at \$38,945, for 1-story, brick, 56x100 ft. combination gymnasium and auditorium, Elghth St. and Georgia Ave., N. W.; slate roof, wood flooring on nailing compound, brick foundation; A. L. Harris, Archt., District Bldg. 5-12

Fla., Havana—Gadsden County Board of Public Instruction, Quincy, let contract to Christopher & Co., Jacksonville, for \$30,000 school building; 18 classrooms and auditorium; Mark & Sheftall, Archts., 210 Clark Bldg., Jacksonville. 3-17

Ky., Richmond—Board of Regents, Western State Normal School & College, let contract to J. C. Miller, 524 Lebanon Ave., Campbells-ville, for \$175,000, 2-story and basement, fireproof, concrete and steel, 144x104 ft. Administration Building; concrete with cut stone veneer foundation, built-up roof, composition flooring, steam heating; electric work to Brock Electrical Engineering Co., 235 E. Main St., Lexington; plumbing, Ben F. Hurst Co.; structural steel, J. E. Moss Iron Works, 4 28th St., Wheeling, W. Va.; brick work, Howell & Goin, Frankfort; cut stone, Southern Cut Stone Co., Bowling Green; C. C. & E. A. Weber, Archts., 1408 Ingalls Bldg., Cincinnati, Ohio. See Want Section—Building Materials and Equipment. 6-2

Ky., Middlesboro—Board of Education let contract to L. C. Powers & Sons, Masonic Bldg., Pineville, for \$10,000 addition to East End School.

Md., Annapolis—Bureau of Yards & Docks, Navy Department, Washington, D. C., let contract to Davis Construction Co., 9 W. Chase St., Baltimore, for reconstruction of roof of Bancroft Hall at Naval Academy, at \$25,470.

Md., Charlotte Hall—Charlotte Hall School Building Committee let contract to Arthur L. Smith & Co., 2525 Pennsylvania Ave., Washington, D. C., at \$82,700, for 3-story and basement, 170x40 ft. with wing 50x25 ft. dormitory; S. Wade Callahan, Archt., 217 Woodward Bldg., Washington. See Want Section—Machinery and Supplies. 5-26

N. C., Goldsboro—Wayne County Board of Education let contract to E. F. Taylor, for \$20,000 school building for Indian Springs township; also for 4 additional rooms to Grantham school.

Okla., Tulsa—Board of Education, Raymond Courtney, Pres., let contracts to Rucks-Brandt Constr. Co., Midcontinent Bldg., for 2 new buildings in Rose Hill district and at Yale Ave. and 11th St.; cost \$105,000, concrete frames, gypsum partitions, asphalt built-up roofs, marble wainscote, cork and tile floors; also for additions to Woodrow Wilson Junior High, Grover Cleveland Junior High, John Burroughs, Springdale, Mark Twain and Celia Clinton grade schools; cost \$100,000, brick, stone, metal roofs, wood and tile floors, metal lath; heating, ventilating, plumbing and wiring not yet let; Lee Shumfay, Archt., Alexander Bldg. 5-26

S. C., Clemson College—Clemson College, Dr. E. W. Sikes, Pres., let contract to C. M. Guest, N. McDuffie St., Anderson, at \$158,171, for 3-story and basement, reinforced concrete frame, 173x113x55-ft. building for Department of Engineering and Architecture; cost \$225,000; equipment and furnishings \$25,000; brick and tile curtain walls, floors of reinforced concrete slabs and metal forms, clay tile roof, faced with texture brick and limestone trim, tile, mastic and composition floors, wrought-iron balconies, steel and wood sash, wood doors, gypsum block partitions, metal lath; steam heat from present plant and plumbing let to L. L. Barr Co., 19 W. North St.; electric work, Morgan-Barr Electric Co., 23 W. North St.; Rudolph E. Lee, Archt., Clemson College. See Want Section—Building Materials and Equipment. 5-26

S. C., Gaffney—Limestone College, Dr. R. C. Granberry, Pres., let contract to W. T.

Duncan, at \$32,000, for 2½-story, brick, 47x82 ft. gymnasium and swimming pool building; concrete foundation, tile, concrete and maple floors, composition roof, 1-pipe gravity steam heating; Charles C. Willson, Archt., 1308-12 Palmetto Bldg., Columbia. 5-26

Tenn., Adamsville—Town of Adamsville let contract to W. W. Osburn, Jackson, for school building; Hawkins Lumber Co., Corinth, Miss., has contract for material; J. F. Parish, Archt., Jackson, Tenn.

Tenn., Chattanooga—Baylor School let contract to R. L. Tolley Construction Co., 819 Georgia Ave., for \$35,000 Baylor Alumni Chapel; Pringle & Smith, Archts. 5-12

Tenn., Chattanooga—Appalachian School Supply Co., Dedrick Bldg., Knoxville, received contract for 1300 chairs for auditorium in new East Lake Junior High School; A. Flanagan Co., Chicago, 12 manual training desks; T. H. Payne & Co., 823 Market St., 700 student desks. 3-3

Tenn., Loudon—Loudon County Board of Education let contract to H. E. Rader, Lenoir City, for \$15,000 school building at Philadelphia, \$12,000 building at Huntsville and \$50,000 school at Greenback; also \$4500 additions at Luttrell School. 5-26

Tex., Abernathy—Abernathy Independent School District, care E. B. Lindsey, Pres., let contract to Sampson Construction Co., Lubbock, at \$37,312, for remodeling and additions to school; M. C. Nevels, plumbing at \$1679 and steam heating at \$4602; electric wiring to Owen Electric Co., \$796; both Lubbock; H. F. Kuehne, Archt., 824 Littlefield Bldg., Austin. 5-5

Tex., Austin—Kappa Alpha Theta Sorority, Mrs. Marvin Charlton, Chmn., let contract to Scott Yeamans, 108 W. 1st St., at \$36,500, for 2-story, basement and attic, 62x75-ft., 11-room, semi-fireproof sorority house; R. Leon White, Archt., University Station. 6-2

Tex., Austin—State Board of Control, H. H. Harrington, Chmn., let contract to Frank Barton, for power house addition at State School for Feeble Minded; Donnelly & White, 204 N. Third St., received contract for steam heating fixtures and Briggs-Weaver Machinery Co., 307 N. Market St., Dallas, for boiler; contract for tunnel to J. J. Wattinger, at \$14,400; \$50,000; H. F. Kuehnle, Archt., 824 Littlefield Bldg. 5-5

Tex., Gardendale—Common School District No. 8 let contract to Peters & Knaggs, Cotulla, for \$10,000, 1-story, 3-room, brick and concrete school building; Henry T. Phelps, Archt., Hicks Bldg., San Antonio. 5-26

Tex., Gregory—Board of Education let contract to W. P. Knacker, Corpus Christi, for \$30,000, 7-classroom and auditorium, 95x115 ft., brick and frame, cast stone trim High School; Hamon & Co., Archts., McDonald Bldg., Corpus Christi. 5-19

Tex., Houston—Board of Education let following contracts: Luther Burbank School—Completion of academic building, water system and toilets; James M. L. West, 3002 N. Main St., general work, flagpole and garage, \$55,334; Walker Steam Heating Co., heating, \$1037; Modern Plumbing and Electric Co., 910 Lamar St., plumbing, \$1940; Jacobs Bros. Electric Co., 1014 Prairie Ave., electrical work, \$137; Southern Pump and Engine Co., water system, \$1600; John Marshall Junior High—15 additional classrooms; West & Jensen, \$68,665; Warren-Shivers Co., Inc., 305 Hagerman St., plumbing, \$7008; Barber Plumbing Co., 1419 Paige St., heating, \$9915; Barden Electric and Contracting Co., 111 Main St., electric work, \$2860; Brackenridge Elementary—Telephon Construction Co., 3900 Clay St., \$31,258; Barber Plumbing Co., plumbing \$4337 and heating \$3255; Barden Electric Co., electric work, \$950; Cooley Elementary—6-classroom addition; M. C. Parker & Co., 1919 Magnolia St., at \$38,467; Warren-Shivers Co., plumbing, \$2053; Barber Plumbing Co., heating, \$4365; Barden Electric Co., electric work, \$1693; Harry D. Payne, Supv. Archt., 1600 Washington Ave. 5-19

Tex., Houston—Houston Independent School District let contract for \$70,000 junior high school, 21st St. and Heights Blvd., to C. W. Ennis, 1401 Dowling St.; rein. concrete and brick, 3 stories, cement and wood floors, tar and gravel roof; Harry D. Payne and Louis A. Glover, Archts., Binz Bldg.; foundation poured. 5-19

Tex., Prairie Lee—School Board, C. I. Clark, Sec., let contract to Blount & Miller, 1427 Nogalitos St., San Antonio, at \$13,500, for 1-story, frame, 72x118-ft. gymnasium; private plans.

Tex., Raymondville—Santa Margarita Independent School District, E. C. Pless, Sec., let contract to Raybourn Construction Co., at \$20,450, for 1-story, 4-classroom and auditorium, brick, hollow tile, reinforced concrete, cast stone school building, near Raymond-

ville; 133x35 ft. with wing 24x99 ft.; Hardy & Curran, Archts., Nixon Bldg., Corpus Christi. 5-12

Tex., Sinton—Board of Education, W. E. Haisley, Pres., let contract to A. C. Moeller Co., New Braunfels, at \$67,500, for 1-story, 240x133-ft., brick, hollow tile, reinforced concrete High School and auditorium; Braden-Hudson-Wangler Co., 302 E. Commerce St., low on electric wiring at \$1799; A. J. Monier & Co., 1446 N. Flores St., low on plumbing and heating at \$9409, both San Antonio; Austin Brothers, Archts., Austin Nat. Bank Bldg., Austin. 5-26

Tex., Van Horn—Board of Education let contract to George Wieland, El Paso, at \$22,298, for new school building; seating to Bryant & Co., 500 Elm St., Dallas.

Stores

Ala., Birmingham—Robert Aland, 2708 Highland Ave., let contract to Mackle-Shepherd Co., 2900 Ave. E., for 2-story, brick building on lower Highland Ave., to be occupied by Exclusive Furniture Shop, 2831 Seventh Ave. S.; Mant Hood, owner.

Fla., Jacksonville—A. Helenthal, 480 Talbot Ave., let contract to R. L. Trump, 8 Hogan St., for \$10,000, 2-story, brick store and 2 flats, 601 Margaret St.

Fla., St. Petersburg—Willson-Chase Co., department store, Central Ave. and Third St., making extensive alterations; new entrance on Third St. side, row of plate glass windows along first floor front and side; O. J. Steinert, Contr.

La., Bastrop—Charles Snyder, Allen Turpin and R. E. Gatlin let contract to McBride Construction Co., Monroe, for 1-story business building.

La., New Orleans—Herman Eicke, 734 Louisiana St., let contract to Hyman Rabinovitz, 740 Poydras St., for \$19,000 building, St. Claude and Almonaster Sts.

Md., Baltimore—Sherwood Bros., Continental Bldg., erect building for commercial purposes, Charles St. and North Ave.; tentative plans call for 2 stories, 38x80 ft., cinder block and stucco, probably Spanish tile roof, wood or tile floors; also remodel filling station; cost \$30,000 to \$40,000; Henry P. Hopkins, Archt., 347 N. Charles St.; owner builds and let sub-contracts.

Md., Baltimore—Hecht Brothers, Malcolm Hecht, Treas., Baltimore and Pine Sts., let contract to Consolidated Engineering Co., 20 E. Franklin St., for \$750,000, 6-story and basement, reinforced concrete store and warehouse addition; concrete floors and foundation, built-up roof, 122 ft. frontage on Baltimore St., running back 176 ft. to Redwood St., where front will be 232 ft.; Abbott Merkt & Co., Archts.-Engrs., 175 Fifth Ave., New York; Smith & May, Const. Archts., Calvert Bldg. 4-28

Mo., St. Louis—Cornet-Casey Co., 1622 Chemical Bldg., has contract for 2-story and basement, 80x156 ft. store and office building, S. E. cor. Euclid and Maryland Aves.; owners name withheld; 9 stores, and 19 suites, fireproof, brick and concrete, composition roof, hardwood and terrazzo floors, oak trim, vapor steam heat; steel stairs let to Builders Iron Works Co., 309 Dorcas St.; plumbing, W. L. Clucas & Co., 3225 Park St.; Russel Conzelman, Archt., 312 Calumet Bldg.

Mo., St. Louis—H. W. Feller, 5172 Easton St., let contract to W. Shassere, 5879A Wabada St., for \$15,000, 2-story, 44x80 ft., brick store and tenement at 5166 Easton St.; composition roof, furnace heat; O. J. Popp, Archt., Arcade Bldg.

Mo., St. Louis—A. Moll, 5659 Delmar Blvd., let contract to G. C. Smith, 1620 Quenda St., for \$16,000, 2-story, brick, 25x125 ft. store, at 5659 Delmar Blvd.; gravel roof; W. P. McMahon, Archt., 819 Buder Bldg.

N. C., Charlotte—Mrs. Paul H. Allen, 200 Roswell Ave., Myers Park, and Mrs. J. J. Akers let contract to J. P. Propst, 21 E. Sixth St., for \$30,000, 75x75 ft. store and apartment building at 504 E. Trade St.; limestone trimmings, plate glass windows, 4 stores and four 4-room apartments.

N. C., Durham—R. L. Baldwin Co., 105 Main St., let contract to Thompson & Canady, Geer Bldg., at \$40,000, for 4-story, fireproof, 29x90-ft., steel, concrete, limestone and wood department store, 107 Bain St.; concrete and oak floors, brick foundation, Johns-Manville roof; equipment and furnishings cost \$10,000; vapor heating and plumbing, Paschall Brothers, Chapel Hill St.; electric work, Durham Public Service Co., Main St.; elevators, Houghton Elevator & Machine Co., Toledo, Ohio; automatic oil heaters, Paschall Bros., 319 E. Chapel Hill St.; elevator doors and closers, Tyler Co., Toledo, Ohio; Atwood & Nash, Inc., Archts., Chapel Hill; T. C. Atwood,

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Engr., 401 Trust Bldg. care Archts. See Want Section—Building Materials and Equipment. 6-2

Okla., Ada—C. H. Reeves let contract to Charles Ray, for remodeling and 1-story addition to building; Albert Ross, Archt.

S. C., Charleston—Berlin Corp., 114 King St., clothiers and furnishers, Sam Berlin, Mgr., let contract to F. C. Mims, 5 Westcott St., at \$10,300, for brick and steel frame addition to building, N. E. cor. Broad and King Sts. 5-26

Tex., Brownsville—Jose Calderoni let contract to W. A. Velten for 50x129 ft., brick and stucco business building; W. H. Bliss, Archt., Harlingen.

Tex., Corpus Christi—Fred Muttera, 813 Mesquite St., let contract to Fred W. Townsend, Palace Theater Bldg., for remodeling store building on Chaparral St.; \$10,000.

Tex., Fort Worth—Washer Brothers, Leon Gross, Pres., 900 Main St., planning \$185,000, 2-story addition on present 2-story building at Main and Eighth Sts.; Wyatt C. Hedrick, Archt.; J. T. Taylor, Contr., both First Natl. Bank Bldg.

W. Va., Morgantown—Guilbert Steel Co.,

Pittsburgh, Pa., received contract for 200 tons structural steel, for use in rebuilding burned store and office building of A. J. Garlow, Pres. of Second Natl. Bank. 4-28

Theaters

Ark., Pine Bluff—Roland Siegel, Propr. of Community Theatre, let contract to T. J. Jones, for 40x90 ft., brick, \$11,500 motion picture theatre on W. Sixth Ave.

Fla., LaBelle—Watts Hall erecting \$25,000 theater building.

Va., Buena Vista—Buena Vista Theater Co. let contract to Shewey Supply Co. and C. B. Slough, for motion picture theater; leased to L. M. Lyons, Lexington.

Va., Richmond—Loew's, Incorporated, 1540 Broadway, New York, let contract to John T. Wilson Co., Inc., Mutual Bldg., for \$750,000 theater building, N. E. cor. Sixth and Grace Sts.; seating capacity 2500; brick, terra cotta and steel; stores on street fronts and offices above; no sub-contracts let; John Ebersson, Archt., 200 West 57th St., New York. 4-28

Warehouses

La., Monroe—Bancroft Bag Co., let contract for 40x64 warehouse.

Md., Baltimore—James McCrea & Son, Engrs., let contract to M. A. Long Co., for \$25,000, 1-story, brick, 130x135 ft. warehouse, Sisson near 25th Sts.; plans by owners.

Mo., Kansas City—Southwestern Bell Telephone Co., 1010 Pine St., St. Louis, Mo., let contract for warehouse and telephone building. See Construction News—Motor Cars, Garages, Filling Station.

Tex., Port Arthur—G. H. Barnes, let contract to F. H. Frunagel, 2415 Lake Shore Drive, for \$20,000, 1-story, 50x140 ft. warehouse; brick veneer, hollow and interlocking tile; private plans.

Va., Richmond—Davis Brothers, Inc., Contrs., 1716 Summit Ave., erecting \$50,000, 75x146 ft., mill construction warehouse, 1707-13 Summit Ave., for H. D. Lipford Grocery Co., Inc., 1400 W. Marshall St.; 2 electric elevators, sprinkler system.

W. Va., Huntington—Watts-Ritter & Co., C. W. Watts, Pres., Masonic Temple, wholesale dry goods and notions, let contract to C. W. Harer, for 2-story addition; \$30,000, 50x100 ft., reinforced concrete; Sidney L. Day, Archt., First Natl. Bank Bldg.

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Machinery and Supplies

Air Compressor.—Dempster Equipment Co., Inc. (Machinery Dealers), Springdale Ave. and Southern Ry., Knoxville, Tenn.—Wants belt-driven air compressor; 750 to 1000 cu. ft. of air per minute.

Alternator.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Receives bids June 15 for 625 kv-a turbo-alternator including air filter, ducts, necessary piping connections, switchboard panel and wiring between alternator panel and switchboard at Marine Barracks, Parris Island, S. C.

Artificial Fruit.—C. W. Weston, Marie Hotel, Pampa, Tex.—Wants artificial oranges, lemons, grapefruit, each 18 inches in diameter like original as to color and shape; made of papier mache or other serviceable material; strong and durable; wants 10 of each.

Asphalt.—Marshall Mott, Blytheville, Ark.—Wants to correspond with dealers handling asphalt.

Bakery Equipment.—Kingsport Bakery, Inc., Kingsport, Tenn.—Wants one second-hand dough brake.

Band Mill.—Louisiana Central Lumber Co., Clarks, La.—Wants 18 ft. double band mill with a gang.

Boiler.—Warrant Warehouse Co., Birmingham, Ala.—Wants second-hand boiler in good condition, size 72x18 horizontal return tubular, complete without stack.

Cement Plant.—Oliver & Oliver (Attys.), Citizens Trust Bldg., Savannah, Ga., have client who is the owner of a large limestone deposit in West Central Georgia, on Atlantic Coast Line and Seaboard Air Line Rys., and has water transportation by barge to the Atlantic Seaboard at Brunswick, and "wants to communicate with engineer experienced in cement manufacture whose recommendation would be of sufficient weight and value to secure necessary finances for organization of manufacturing company."

Chairs.—Nu-Idea School Desk Co., Darlington, S. C.—Want to represent manufacturers of kindergarten chairs.

Cans (Porcelain).—C. W. Weston, Marie Hotel, Pampa, Tex.—Wants special made porcelain cans with pipe connection; specification on request.

Clay.—M. Ponce Co., Inc., 1980 N. Miami Ave., Miami, Fla.—Wants prices on clay for the manufacturing of roofing tile, etc.

Ditching Machine.—National Land Exchange, Inc., Elizabethtown, N. C.—Wants ditching machine, developing 200 acre subdivision.

Electric Drills.—U. S. Navy Dept., Washington, D. C.—Receives bids June 14 for electric drills.

Engine (Crude Oil or Gas).—S. Wade Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants data and prices on crude oil or gas engine, for Charlotte Hall School, Charlotte Hall, Md.

Engine—Generator Set.—Palmore Noe, City Clk., Seminole, Okla.—Wants equipment for generating electric current to drive 10 pumps at water works.

Generating Plant (Electric).—S. Wade Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants data and prices on electric generating plant, 10 kw. capacity, for Charlotte Hall School, Charlotte Hall, Md.

Gypsum Wallboard Machinery.—John M. Easley, Box 398, Sweetwater, Tex.—Wants all information possible on process of manufacturing gypsum wallboard and allied products; has large deposit of gypsum and gypsum in Fisher county convenient to railroad and power lines.

Ice Cream Machinery.—Bryson City Ice Co., Bryson City, N. C.—Names and addresses of manufacturers of ice cream machinery.

Locomotive.—C. E. Trainer, Gerudge Place, Atlanta, Ga.—Wants 48-in. gage Shay geared locomotive, 20 to 30 ton; good condition.

Packing Shed Equipment.—J. K. Smith, Sec., Chamber of Commerce, De Riddler, La.—Wants information regarding equipment for packing shed for citrus fruit.

Pipe (Cast Iron).—E. T. Miller, Trinity, N. C.—Wants about 40 to 50 ft. of 24-in. to 30-in. either wrought or cast iron pipe (second hand), for feeder pipe for water wheel.

Pipe (Gas).—Alex M. Robinson (Mchy. Dealer), Georgetown, Ky.—Wants prices on approximately 3500 ft. of first-class used 4-in. pipe for gas line; in mill lengths, free from rust, pits, bends, and other imperfections and cheap for resale; shipment for Kentucky point.

Pumps.—Palmore Noe, City Clk., Box 735, Seminole, Okla.—Wants pumps for deep water wells.

Reed.—Thomas Organ and Piano Co., Ltd.,

Woodstock, Ont., Canada—Wants prices and data on reed and reed board supplies.

School Equipment.—S. Ward Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants data and prices on kitchen and dining room equipment, for Charlotte Hall School, Charlotte Hall, Md.

Sewer Pipe.—National Land Exchange, Inc., Elizabethtown, N. C.—Wants sewer pipe for developing 200 acre subdivision.

Shears.—Booker & Co., Inc. (Manufacturers Agents), Morgan and Bell Sts., Tampa, Fla.—Wants prices on second-hand shears suitable for cutting re-inforcing steel bars.

Steam Shovel.—National Land Exchange, Inc., Elizabethtown, N. C.—Wants one revolving steam shovel, developing 200 acre subdivision.

Steel.—Clyde Cocke, Pur. Agt., Room No. 351, N. & W. Ry. Bldg., Roanoke, Va.—Receives bids June 15 for 900 sheets locomotive jacket steel—Contract Serial AA-470; information on application.

Steel Tanks.—Tuscaloosa Syrup Co., Inc., Tuscaloosa, Ala.—Wants 2 steel tanks, 12,000 to 15,000 gal. capacity, second-hand in good condition.

Tanks (Septic).—S. Wade Callahan, Archt., 217 Woodward Bldg., Washington, D. C.—Wants prices on septic tanks for Charlotte Hall School, Charlotte Hall, Md.

Tooth Brushes.—Pomolene Manufacturing Co., 19½ Peachtree St., Atlanta, Ga.—Wants to correspond with manufacturers of rubber tooth brushes.

Transfer and Warehouse Equipment.—Warehouse Transfer Co., Inc., 214 E. Line St., Tyler, Tex.—Wants equipment and machinery used in connection with transfer and warehouse business.

Turbine Jump.—James R. Connelly, Florence, S. C.—Wants deep well turbine pump.

Water Works.—Town of Poteet, Tex., A. J. Goodfellow, Mayor—Wants to correspond with firms interested in installing complete water system for town.

Water Tank.—National Land Exchange, Inc., Elizabethtown, N. C.—Wants water tank, developing 200 acre subdivision.

Wharf.—H. H. Frasier, Sec. Chamber of Commerce, Selma, Ala.—Wants to correspond with engineers specializing in designing and construction of river wharf, also manufacturers of wharf equipment.

Woodworking Tools.—C. E. Reick, Rt. No. 3, Gainesville, Fla.—Wants names and addresses manufacturers axes, hatchets, and hammer handle lathes.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Dempster Equipment Co., Inc. (Machinery Dealers), Springdale Ave. and Southern Ry., Knoxville, Tenn., wants:

- (1) Locomotive—20 to 30 ton, standard gauge, geared steam locomotive.
- (2) Cars—8 wheel log cars, standard gauge, either MCB or link and pin couplers; state freight rates from present location; advise where may be inspected under steam.

Winton Heading Co., Winton, N. C., will rebuild slack barrel heading mill, burned recently, and wants best price on good, rebuilt, or used machinery, as follows:

- (1) Boiler—one 150 h. p. boiler with fronts.
- (2) Conveyor Chain—for dust and refuse, including cogs and pulleys.
- (3) Dry Kiln—two kilns with 15,000 ft. of pipe and fittings (good condition).
- (4) Shaftings—pulleys, friction clutch.
- (5) Pipe and Fittings—for dry kiln.
- (6) Saw Carriage—one steam feed cut off saw carriage with 72-in. saw; 48-in. inserted tooth circular saw.
- (7) Saw—Trevor pendulous swing heading.
- (8) Press (Balling)—heading.
- (9) Friction Set—light type for making bolting machines.
- (10) Hog—small hog with teeth for cutting up dry crooks, endless chain for log jack.
- (11) Trucks—5½-ft.
- (12) Fan—with pipe and cyclone for dry end.
- (13) Galvanized Metal—for siding and roof.
- (14) Grinder—for circular saws.
- (15) Generator—5 kw. generator for use, direct connected (d. c. 110v).
- (16) Emery Stand.
- (17) Meter and Small Panel.
- (18) Pipe—¼-in. to 4-in., valves and fittings.
- (19) Belts.
- (20) Heading Saws—for 42-in. Trevor machine, including collars, No. 5 turner with clamps.
- (21) Heading Planer.

Spanish Cay Trading Post, U. S. Address, 1655 Michigan Ave., Miami Beach, Fla., (Buyers and Sellers, Importers and Exporters of lumber, sponge, tortoise shell, ships supplies, etc. in Spanish Cay, Bahama Islands), wants the following:

- (1) Baling Machine.
- (2) Cise—for rope making.
- (3) Rope Making Machinery.
- (4) Sail Cloth and Marine Supplies.
- (5) Tortoise Shell.

Bids Asked

Ammonia Fittings for Refrigerators.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 14 for furnishing ammonia fittings for refrigerator, information on application.

Asphalt Distributors.—Charles E. Gross, Dallas County Auditor, Dallas, Tex.—Receives bids June 13 for one or more, new or used, asphalt distributors.

Ash Conveyor System.—Bureau of Yards and Docks, Navy Dept., Washington, D. C.—Receives bids June 22 for ash conveyor system, including ash tank, conveyor system, steam, water and drain piping at Marine Barracks, Paris Island, S. C.; specifications, etc., on application.

Bases (Wooden).—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 10 for wood bases.

Boilers.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 14 for 20 smokeless type house heating boilers, for delivery to Quantico, Va.; information on application.

Boilers.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 15 for furnishing and installing one low pressure steam house heating boiler with fuel oil burner and 1000 gal. storage tank at Marine Barracks, 8th and Eye Sts. S. E., Washington, D. C.; information on application.

Boiler House.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 21 for boiler room (addition to disinfecting and bath building), including mechanical equipment, Marcus Hook, Pa., U. S. Q. S.; specification, etc., on application.

Bottles.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for bottles; specifications, etc., on application.

Brass.—U. S. Veterans Bureau, Washington, D. C.—Receives bids until June 13 for brass, etc.; specifications, etc., on application.

Bridge.—Lagrange, Tex. receives bids for bridges and culverts. See Construction News—Roads, Streets, Paving.

Bridge.—Shreveport, La., receives bids for several bridges and structures. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—State of Tennessee receives bids for 12 bridges. See Construction News—Roads, Streets, Paving.

Bridge.—Nashville, Tenn. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—A. W. Thompson, Ch. Engr., Carolina Power and Light Co., Raleigh, N. C., receives bids June 20, for 28-ft. bridge over Upper Richland Creek, and three 30-ft. spans over Lower Richland Creek, Montgomery County, near Mt. Gilead; plans from Engr., and at Dorsett & Lowdermilk's store, Mt. Gilead.

Bridge.—State of South Carolina receives bids for 3 bridges. See Construction News—Roads, Streets, Paving.

Chiffoniers.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 10 for chiffoniers.

Cleaning Rugs.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 13 for furnishing labor and material to clean and wash rugs, Brussels and Wilton, at Washington, D. C.; information on application.

Commissary Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 15 for furnishing commissary supplies.

Cook's Tables.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 10 for cook's tables.

Coal.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 10 for Bituminous and Virginia Anthracite Coal.

Dike.—Board of Public Service, St. Louis, Mo.—Receives bids June 21 to furnish material and construct 2100 ft. of hurdle dike as extension to dike 15 in Missouri River at Howard Bend.

Dikes.—Board of Public Service Co., St. Louis, Mo.—Receives bids June 14 for labor, materials and constructing 2100 ft. of hurdle dike as extension to dike 15 on Missouri River at Howard Bend.

Drag Lines.—Charles E. Gross, Dallas County Auditor, Dallas, Tex.—Receives bids June 13 for one or more, new or used drag lines.

Dredging.—City Comsn., Miami, Fla., H. E. Ross, Clk.—Receives bids June 13 to dredge turning basin at Municipal docks, including removal of approximately 216,000 cu. yds. of sand, rock and other materials.

Electric Ranges.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 17 for 10 electric ranges and steam tables, etc.; specifications, etc., on application.

Furniture.—Southern University, J. S. Clark, Pres., Baton Rouge, La.—Receives bids June 25 for furniture and equipment for new science building and auditorium.

Kitchen.—U. S. Veterans Bureau, Room 791, Arlington Bldg., Washington, D. C.—Receives bids June 28 for labor and material for construction of storage addition to kitchen.

Laundry Equipment.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 17 for laundry equipment.

Laundry Machinery.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for furnishing laundry machinery.

Leather Dyes.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 16 for leather dyes; specifications, etc., on application.

Mailing Platform.—Treasury Dept., Office of Supervising Archt., Washington, D. C.—Receives bids June 24 to remodel mailing platform, install new lift, etc., at U. S. post office, Johnstown, Pa.; specifications, etc., on application.

Medicaments.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 18 for medicaments; specifications, etc., on application.

Mezzanine Floor.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 17 to construct mezzanine floor, etc., in postal stamp vault of U. S. post office, Philadelphia, Pa.; specifications, etc., on application.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids June 13 to furnish following. Blank forms and information (Circular 154) on application of offices of Panama Canal; General Purchasing Officer at Fort Mason, San Francisco, Calif.:

Galvanized pure iron sheets, structural steel, iron or steel pipe, railing fittings, machine bolts, garage pump, casket carriage, wheelbarrows, garbage cans, blasting machines, engine lubricators, injectors, copper eyelets, sash centers, chain links, caulking ferrules, brass escutcheons, hose couplings, valve seat reamers, electric fixtures, valves, stop cocks, steam whistles, rubber balls, switch brooms, scrub-brush handles, soap and cotton damask dollies.

Monolite System.—City of Huntington, W.

Va., Homer L. Yeich, Street Commr., A. B. Maupin, City Engr.—Receives bids June 20 for monolite system on Seventh St. from 3rd to 4th Aves.

Paint.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 16 for paint; specifications, etc., on application.

Paint.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 11 for furnishing labor and material to repair and paint interior of Marine Barracks, 8th and Eye Sts. S. E., Washington, D. C.; information on application.

Paving, etc.—W. H. Perkins, Pres., East Baton Rouge Parish School Board, Baton Rouge, La.—Receives bids June 28 for 558 cu. yd. gravel in driveway and park space, or 670 cu. yd. washed reef oyster shell; 1644 ft. straight concrete curb; 1183 lin. ft. combined concrete curb; 99 sq. yd. reinforced concrete walk-drive; 75 sq. yd. concrete walk-drive; 1582 sq. yd. combined concrete walk; 3395 sq. yd. standard concrete walk; plans from Selfried & Troeger, Landscape Archts., 206 Wickek Bldg.

Pipe.—See Sewers.

Pipe (Cast Iron).—See Sewers.

Pipe (Reinforced Concrete).—See Sewers.

Pipe (Vitrified).—See Sewers.

Pipe and Fittings.—Wm. R. Galt, City Mgr., Tallahassee, Fla.—Receives bids June 28 for following pipe and fittings, f. o. b. Tallahassee:

- (1) Pipe (Water)—3850 ft. of 12-in., 3150 ft. of 10-in., 1500 ft. of 8-in., 23,000 ft. of 6-in. cast iron pipe and fittings.
- (2) Pipe (Gas)—550 ft. of 8-in., 1350 ft. of 6-in., 3504 ft. of 4-in. cast iron pipe and fittings; state freight rate per ton on which bids are figured, date of delivery and class of pipe.

Post Office.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 27 to construct complete (except elevator) of U. S. post office and court house at Coeur D'Alene, Idaho; specifications, etc., on application.

Retaining Wall, etc.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 23 to extend concrete driveways, retaining wall, etc., at U. S. Post Office, Kewanee, Ill.; specifications, etc., on application.

Road.—Charleston, S. C. See Construction News—Roads, Streets, Paving.

Road.—Lagrange, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of Tennessee receives bids for 9 roads. See Construction News—Roads, Streets, Paving.

Road.—Jennings, La. See Construction News—Roads, Streets, Paving.

Road.—Bureau of Yards and Docks, L. E. Gregory, Ch. Navy Dept., Washington, D. C.—Receives bids June 22 for concrete road, including curbs, catch basins, drains, grading and removing existing catch basins at Naval Hospital, Norfolk, Va.; Specification No. 5400; plans on file, and from Commandant, Navy Yard, Norfolk.

Road.—State of Maryland receives bids for 7 roads. See Construction News—Roads, Streets, Paving.

Road Protection.—Bay St. Louis, Miss. See Construction News—Roads, Streets, Paving.

Road.—State of South Carolina. See Construction News—Roads, Streets, Paving.

Road.—State of Texas receives bids for 3 roads. See Construction News—Roads, Streets, Paving.

Road.—Waco, Tex. See Construction News—Roads, Streets, Paving.

Road.—Houston, Tex. See Construction News—Roads, Streets, Paving.

Road.—State of South Carolina receives bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—State of Texas receives bids for 6 roads. See Construction News—Roads, Streets, Paving.

Road.—Palatka, Fla. See Construction News—Roads, Streets, Paving.

Roving Cotton.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for roving cotton.

Roofing Work.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 15 for roofing work at U. S. post office and court house, Kansas City, Mo.; specifications, etc., on application.

Sewers.—Haines City, Fla., Jess P. Ferrill, Mgr.; Joe J. Hill, City Engr.—Receives bids June 29 for furnishing material and constructing sanitary sewers, sewage disposal plant and sewage pumping stations; work includes 4 miles of sanitary sewers, 8-in., 12-in. and 15-in., 1 mile of 6-in., 8-in. and 10-in. cast iron force main, 3 sewage

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

pumping stations and disposal plant; Wiedeman & Singleton, Consol. Engrs., 1405 Candler Bldg., Atlanta, Ga.

Sewers.—City of Enid, Okla., F. C. Magruder, City Engr.—Receives bids about June 15 for sanitary sewers; 12,000 ft. of 8 and 10-in. vitrified tile sewer pipe.

Sewers.—City of Jacksonville, Fla., Frank H. Owen, Chmn.—Receives bids June 13 for furnishing material and constructing storm drains; following material required; state price f. o. b. Jacksonville; 800 ft. of 36-in., 800 ft. of 30-in., 805 ft. of 24-in., 845 ft. of 21-in., 3635 ft. of 18-in., and 1780 ft. of 15-in. reinforced concrete pipe; constructing and furnishing 800 ft. 36-in., 800 ft. of 30-in., 805 ft. of 24-in., 845 ft. of 21-in., 3635 ft. of 18-in., 1780 ft. of 15-in. reinforced concrete storm drains.

Sewers.—City of Arlington, Tex.—Receives bids June 14 for sewer disposal plant and main line interceptor, 9000 ft. of 10 and 8-in. vitrified pipe sewer; install 2 Imhoff tanks, sprinkling filter, sludge bed, pumps and pump house, and two 4-in. pumps; Myers & Forrest, Engrs., 1107 Mercantile Bank Bldg., Dallas.

School Furniture and Equipment.—J. S. Clark, Pres. of Southern University and Agricultural and Mechanical College, Baton Rouge, La.—Receives bids June 25 for furnishing furniture and equipment for science building and auditorium.

Sewers.—R. F. Bootman, Chmn., Water and Sewer Committee, Culpeper, Va.—Receives bids June 20 for extensions to west district sewers, including intercepting sewer, outfall sewer, etc., work includes 9241 ft. of 6-in., 8-in., 10-in. and 15-in. sewers with cast iron sections, 24 manholes, 3 flush manholes.

Sidewalks.—Chattanooga, Tenn. See Construction News—Roads, Streets, Paving.

Steel Barrels.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 14 for furnishing 500 steel barrels; delivery f. o. b. factory; specifications, etc., on application.

Street.—San Antonio, Tex. See Construction News—Roads, Streets, Paving.

Street.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Street.—Alabama City, Ala. See Construction News—Roads, Streets, Paving.

Street.—Tampa, Fla. See Construction News—Roads, Streets, Paving.

Thread.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for thread.

Timber Groin.—U. S. Engr. Office, Fort Norfolk, Norfolk, Va.—Receives bids June 17 for timber groin at Fort Monroe Reservation, near Buckroe Beach, Va.; information on application.

Tricolators.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for tricolators; specifications, etc., on application.

Truck Chassis.—Board of Awards, Baltimore, Md., O. F. Lackey—Receives bids June 15 to furnish 2 truck chassis with cab.

Trucks.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 15 for 4 trucks, delivery to Quantico, Va. and S. Charleston, W. Va.; information on application.

Trucks.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids June 14 for furnishing 5 trucks; specifications, etc., on application.

Vario-Frequency Apparatus.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for vario-frequency apparatus, diathermy outfit, to deliver a maximum capacity of 4000 milliamperes, with an adjustable frequency range from approximately 500,000 to 1,000,000 cycles per second, complete with spark gap, auto-condensation coil, meter and rotary converter for operation on 110 volts, direct current, mounted on mobile cabinet stand, Victor Cat. No. V2837, V2809 and V2846 or equal.

Water Supply.—Treasury Dept., Supervising Architect's Office, Washington, D. C.—Receives bids June 30 for removing present water supply piping and furnishing and installing new brass water supply system at U. S. Custom house, New York; specifications, etc., on application.

Water Works.—Board of Public Service, St. Louis, Mo.—Receives bids June 21 for constructing, and labor and equipment for reinforced concrete covers for 4 storage reservoirs at Blaisell Point and for reinforced concrete cover for Baden reservoir.

Water Works.—City of Butler, Mo., J. E. Williams, Mayor—Receives bids June 20 for

\$15,000 improvements to water works, including, storage reservoir, capacity 1,000,000 gals., 12 to 14 ft. high, 100 ft. in circumference; R. E. Johnson, Engr.

Water Works.—City of Mars Hill, N. C., E. W. Reese, Sec.—Receives bids June 11 for gravity water line and intake with appurtenances from Laurel River to city reservoir; Cox Engineers, 281 Jackson Bldg., Asheville, work includes:

- (1) Intake.
- (2) Pipe (Cast Iron)—6-in. and 4-in.
- (3) Valves—eight 6-in. gate and 3 air valves.

Water Works.—Board of Awards, Baltimore, Md., Geo. F. Wiegardt, Water Engr.—Receives bids June 15 for excavating trenches and laying water mains in Wagner's Point and Fairfield Rds.

Water Works.—City of Raleigh, N. C., E. E. Culbreth, Mayor—Receives bids June 16 for water works improvements including labor, material and constructing raw water pumping station at Rand's Mill and for chemical feed and storage house; William C. Olsen, Inc., Consol. Engr.

White Enamel Kitchen Cabinet.—U. S. Veterans Bureau, Washington, D. C.—Receives bids June 13 for white enamel kitchen cabinet; specifications, etc., on application.

Wharf.—Treasury Dept., Office of Supervising Architect, Washington, D. C.—Receives bids June 21 to reconstruct gangway, changes of wharf, etc., for U. S. Q. S., Marcus Hook, Pa.; specifications, etc., on application.

Building Material and Equipment

Thos. Hicks & Son, Contrs., 106 W. Madison St., Baltimore, Md., wants prices on following for \$40,000 bank remodeling and addition:

Flooring.—hardwood, linoleum, terrazzo, tile, composition.

Limestone.

Metal Ceilings.

Vaults.

Rev. Ernest A. Childs, Pastor, Springhill Avenue Methodist Church, Crichton, Ala., wants sub-bids on following for auditorium:

Electric Work.

Furniture.

Heating.—type not determined.

Millwork.

Plumbing.

Seating.

A. P. Clark, Jr., Archt., 816 Fourteenth St. N. W., Washington, D. C., wants prices on following for \$350,000 bank and office building:

Elevators.

Flooring.—linoleum, tile, composition.

Limestone.

Metal Ceilings.

Marble.

Metal Doors.

Roofing.—built-up, tile.

Steel Sash and Trim.

Tile.—gypsum, hollow.

Vaults.

J. S. Foote, Contr., P. O. Box 1127, Harrisburg, Pa., wants prices on following for \$70,000 church, Baltimore, Md.:

Cast Stone.

Flooring.—hardwood, terrazzo, tile, composition.

Marble.

Metal Doors.

Steel Sash and Trim.

Tile.—hollow.

Also sub-bids on following:

Metal Work.

Painting.

Plastering.

Roofing.—slate.

Tile Work.

H. I. Hirsch, Archt., 306 Vandiver Bldg., Montgomery, Ala., wants prices on following for \$35,000 synagogue:

Cut Stone.

Glazing.

Lumber.

Millwork.

Steel.

C. E. Miller, 648 Linwood Ave., Atlanta, Ga., wants prices on following for \$12,000 residence:

Electric Refrigerators.

Flooring.—linoleum.

Metal Ceilings.

C. Harrison Smith, Contr., Fobson-Prichard Bldg., Huntington, W. Va., wants prices on following for \$217,000 High School at Martinsburg:

Flooring.—composition, hardwood, terrazzo and tile.

Incinerator.

Limestone.

Marble.

Metal Doors.

David W. Shields, Jr., Supt. Coffee County Board of Education, Manchester, Tenn., wants prices on following for \$10,000 school at Hillsboro:

Roofing.—Asbestos shingle, asphalt shingle and built-up.

E. T. Hutchings, Archt., 418 S. Fifth St., Louisville, Ky., wants prices on following for \$250,000 Charles P. Moorman Home for Women:

Dumb Waiters.

Elevators.

Flooring.—hardwood, terrazzo and tile.

Limestone.

Marble.

Metal Doors.

Refrigerators (electric).

Tile.—gypsum and hollow.

Wire Glass.

Mann & Stern, Archts., A. O. U. W. Bldg., Little Rock, Ark., wants prices on following for \$300,000 Y. M. C. A.:

Cast Stone.

Dumb Waiters.

Elevators.

Flooring.—tile.

Limestone.

Marble.

Metal Doors.

Rolling Partitions.

Roofing.—tile.

Steel Sash and Trim.

Tile.—hollow.

Ventilators.

Wire Glass.

J. C. Miller, Contr., 524 Lebanon Ave., Campbellville, Ky., wants prices on following for \$175,000 Administration Building at Western State Normal School and College, Richmond:

Glass (Plate) and Glazing.

B. F. Wood, care Reed-Harlin Grocer Co., West Plains, Mo., wants sub-bids on following for residence:

Roofing.—rigid asbestos shingle.

Wells Motor Co., 3008 N. Grand Ave., St. Louis, Mo.—Wants price on following for \$50,000 garage and sales room:

Floors.—composition.

Limestone.

Marble.

Metal Ceilings.

Metal Doors.

Roofing.—built-up, steel sash and trim.

Sky Light.

Tile.—Gypsum.

Ventilators.

Wire Glass.

James Stewart & Co., Inc., 507-09 Evans Bldg., Washington, D. C., wants bids until June 15 on estimates, including alternates, on \$750,000 Union Trust Co. addition.

M. A. Long Co., Contrs., 10 W. Chase St., Baltimore, Md., wants estimates until June 14 on all lines of work for South Baltimore General Hospital nurses' home extension.

Electrical Plant.—City Comsn., Frank H. Owen, Chmn., Jacksonville, Fla.; Scofield Engineering Co., Consol. Engrs., Commercial Trust Bldg., Philadelphia, Pa.—Receives bids June 27 for following construction and furnishing equipment, including:

(1) Extension and changes in building.

(2) Structural Steel.

(3) Steel windows and operating gear.

Peters & Haynes, Archts., 321-25 Ellis Bldg., Lubbock, Tex., wants prices on following for \$100,000 clinic:

Elevators.

Flooring.—terrazzo.

Limestone.

Roofing.—built-up.

Tile.—gypsum, hollow.

Ventilators.

Weary & Alford Co., Archts., 1923 Calumet Ave., Chicago, Ill., wants prices on following for \$1,700,000 bank and office building, Tulsa, Okla.:

Elevators.

Flooring.—hardwood, linoleum, tile.

Marble.

Metal Doors.

Roofing.—built-up, tile.

Steel Sash and Trim.

Tile.—gypsum, hollow.

Terra Cotta Trim.

Vaults.

Vault Lights.

Wire Glass.

G. L. Bell, care Suffolk Feed and Fuel Co., 219 S. Saratoga St., Suffolk, Va., wants price on following for residence:

Face Brick.

Cornell G. Curtis, Archt., 1632 Hawthorne St. Houston, Tex., desires catalogs, data, prices and samples on all kinds building materials, etc., for \$250,000 courthouse, Liberty, Tex.

Levy County Abstract Co., J. C. Sale, Pres.-Mgr., Bronson, Fla., wants prices on following for \$2500 building:

Vault Door.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Frohman, Robb & Little, Archts., 140 Boylston St., Boston, Mass., and Washington Cathedral, Washington, D. C., wants prices on following for \$550,000 church and parish house, Washington:

Cast Stone.
Dumb Waiters.
Flooring—hardwood, terrazzo, composition.

Limestone.
Steel Sash and Trim.
Tile—gypsum, hollow.

A. B. McAfee, Jr., Perryton, Tex., wants prices on following for \$10,000 municipal building:

Flooring—hardwood, tile.
Roofing.
Tile—interior.
Vaults.

Rev. V. E. Patterson, Ames, Okla., wants prices on following for \$8000 church:

Flooring—hardwood.
Metal Ceilings.
Roofing—asbestos.
Ventilators.
Ventilator and Window Opening Device (Automatic Electric, to operate from room).

W. W. Wharton, P. O. Box 825, Brady, Tex., wants prices on following for \$30,000 church:

Cast Stone.
Flooring—tile.
Rolling Partitions.
Roofing.
Tile—hollow.
Also sub-bids on:
Heating and Cooling System.
Lighting.
Plumbing.

Bayside Beach, Inc., Jimmie Hodges, Gen. Mgr., 301 Texas Theater Bldg., San Antonio, Texas., wants prices on following for \$700,000 hotel, Calhoun County:

Dumb Waiters.
Elevators.
Flooring—composition, hardwood, terrazzo and tile.
Mail Chutes.
Marble.
Metal Ceilings and Doors.
Refrigerators (Electric).
Roofing—tile.
Sprinkler System.
Steel Sash and Trim.
Terra Cotta Trim.
Tile—gypsum.
Vaults and Vault Lights.
Ventilators.
Wire Glass.

Rudolph E. Lee, Archt., Clemson College, S. C., wants prices on following for \$225,000 Engineering Building:

Flooring—composition, linoleum, terrazzo and tile.
Limestone.
Marble.
Metal Screens (Fly).
Roofing—built-up and tile.
Steel Sash and Trim.
Tile—gypsum, interior and hollow.

Thompson & Canady, Contrs., Geer Bldg., Durham, N. C., want prices on following for \$40,000 department store:
Flooring—hardwood.
Roofing—built-up.

Trade Literature

A New Newman Catalogue.

The Newman Manufacturing Company, Cincinnati, Ohio, has published a new catalogue covering their broad range of architectural and ornamental brass and bronze work, such as complete installations of doors, bank fixtures, grilles, special hardware, tablets, etc. It is a beautifully illustrated publication, and the information which it contains is complete in detail.

Stow Data on Flexible Shafting, Etc.

The Stow Manufacturing Company, Inc., Binghamton, N. Y., inventor and manufacturer of the Stow flexible shaft, has just issued engineering sheets and catalogue combined in loose-leaf form, 9 by 12 inches, fully illustrating complete engineering data on flexible shafting. The catalogue also contains illus-

trations and descriptions of self-contained motor-driven units for grinding, drilling, buffing, polishing and sanding, and metal and wood finishing in general. Much space has been devoted to equipment especially designed for steel mills and electric railways. In the former case the Salamander drill, for which there has been an urgent demand, is described in detail.

Use of Powdered Coal As Fuel.

The International Combustion Engineering Corporation, Madison avenue and 35th street, New York, has issued in the form of an illustrated bulletin a reprint of a paper presented by Henry Kreislinger before the International Conference on Bituminous Coal, held at Pittsburgh in November last. It is entitled "Recent Developments in Burning Powdered Coal Under Steam Boilers." Mr. Kreislinger is research engineer of the Combustion Engineering Corporation and is therefore well qualified to discuss the subject. The illustrations are excellent and full of detail, admirably supplementing the reading matter.

"Bulk Storage Tanks."

This is the title of a new 48-page catalogue just issued by the Graver Corporation, East Chicago, Ind. The catalogue contains a great many illustrations of bulk stations of every type. It also has a list of Standardized tank sizes, with specifications for all types. There are several pages devoted to drawings of bulk-station layouts and three pages to view of fittings, which the Graver organization is prepared to furnish. Structural steel supports are fully described on two pages. The book closes with a page on the care of tanks, with which is incorporated unloading and erecting suggestions. Copies may be obtained by writing to the Graver Corporation.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Battling the Gulf With an Odd Dredge.

A hydraulic pump dredge of unusual construction was recently built by Jahncke Service, Inc., of New Orleans, for the Woods Brothers Construction Company of Lincoln, Neb. This dredge, located at Gulfport, Miss., on the Gulf of Mexico, is now taking part in the great protective work of building a retaining sea wall 14 miles long, its particular duty being to fill-in back of the wall. The dredge, while seaworthy, is of very shallow draft and carries a ladder with a rotary cutter, and is spud rigged. It is completely electrified, General Electric equipment being used throughout, and is one of the first complete installations of its kind. The equipment consists of a 15-inch Amasco centrifugal dredge pump driven by a 600-horsepower, 2200-volt, slipring motor. The hoist motors, pump motors and ladder motor, varying from 10 to 75 horsepower, operate on 440 volts. A substation is located on the shore, transforming power from 13,200 to 2300 volts. This substation is mounted on trailers so that it may be transported by a tractor. From the substation power is brought to the dredge through 2800 feet of 3-conductor, submersible, dredge cable suspended from tank type pontoons. The equipment has been in operation for about five months. Bradley S. Carr, manager of the pump department of the American Manganese Steel Company, was the consulting engineer.

Equipment for Various Fuels.

The Combustion Service Corporation, 25 Beaver street, New York city, has published an illustrated folder of four large pages giving information about equipment for burning one, two or three fuels individually or in combination. It mentions the corporation's tri-fuel burners—coal, oil and gas—also its pulverized coal and oil burners, finally its oil and gas burners. There is ample descriptive material, with illustrations, one of the pictures being in colors.

New F. O. Schoedinger Catalogue.

A fine and large catalogue dated May 1, 1927, has been issued by F. O. Schoedinger, 322-358 Mt. Vernon avenue, Columbus, Ohio, gives complete information, with numerous illustrations, concerning the "Fosco" line of revolving ball-bearing ventilators, syphonic stationary ventilators, hollow fireproof metal windows, tin-clad fire doors, sheet-metal skylights, puttyless skylights, structural bar skylights and built-in metal cabinets. There are 50 pages, every one of them attractive and interesting.

Two Blaw-Knox Products.

The Blaw-Knox Company, Pittsburgh, Pa., has published a leaflet, with an excellent illustration, showing their Dreadnaught clamshell bucket as it appears in actual operation. This bucket, it is stated, is built to stand hard, rough work; all wearing points are made of alloy steel. An illustration of the dragline bucket of the same manufacturers is shown on the other page of the leaflet. This bucket is of the contractors' type. It is of 1½ cubic-yard capacity and is represented working on a 30-B Bucyrus crane, Diesel type. Tabulated data accompany the picture.

General Electric Announcement.

The General Electric Company has announced a 5 per cent reduction in prices of distribution transformers and small-power transformers, effective June 1. This reduction is the sixth since 1920. On certain types of large transformers reductions, which average 5 per cent for this class of product, have also been made. According to J. G. Berry, vice-president, these reductions are made possible by economies resulting from improved engineering and manufacturing methods and standardization.

Harnischfeger Dallas Office.

The Harnischfeger Corporation of Milwaukee, Wis., have announced the removal of their Dallas (Texas) office from 401 Fidelity Union Building into the Construction Industries Building. It is understood that more adequate quarters were made necessary by the increased volume of business being handled in Dallas sales territory.

Climax Has New Dealer.

The Climax Engineering Company announce the appointment of the James McGraw Company, Richmond, Va., as their sales agents in Richmond and vicinity. The James McGraw Company travel a number of salesmen throughout Virginia and North Carolina.

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

Westinghouse Makes an Announcement.

Effective June 1, a price reduction of approximately 5 per cent in distribution and power transformers was announced by the Westinghouse Electric and Manufacturing Company. This was the second 5 per cent reduction in seven months, a previous cut having been made last November. According to E. D. Kilburn, vice-president, the price reduction has been made possible, first, by the increase in power consumption by the public, this increasing the demand for transformers so as to make possible their production on a large-volume basis, and, second, by the production of these transformers being concentrated in a huge plant at Sharon, Pa., where ultra-modern methods of manufacture have resulted in economies of manufacture.

Another Arc Welded Building for Westinghouse.

Erection of the fifth arc-welded building in the group of the Westinghouse Electric and Manufacturing Company has been started at Derry, Pa., by the Jones & Laughlin Steel Company to whom the contract was recently awarded. It will be a one story mill type structure, 303 by 460 feet and 25 feet high at its central bay. It will house kilns used in the manufacture of porcelain insulators. All structural details will be welded in the field. This is a departure from previous practice wherein the steel members were assembled by shop welders. The welding will be supervised by engineers of the Westinghouse Company.

Merco Nordstrom Valve's New Factory.

A factory for the Merco Nordstrom Valve Company of San Francisco is being fitted up at Oakland, Cal., this firm being manufacturers and distributors of the well-known Merco Nordstrom Plug Valve, which is being used increasingly in many industries and especially in gas, oil, cement and chemical lines. The company is a subsidiary of the Merrill Company of San Francisco, which has been active in the metal mining field for many years, and it was incorporated three years ago. The valve was invented by Sven Johan Nordstrom, a mechanical engineer, who first developed it in Mexico in 1916, where, it is stated, it was used with marked success by a number of large mining companies and had been used as standard equipment on metallurgical machinery of the Merrill Company. The latter agreed with Mr. Nordstrom in 1918 to develop and introduce the valve generally throughout the world, and the business grew so that a separate company had to be formed. Since then the new company has been producing the valves on the Atlantic seaboard, but the need for the Western factory has been felt for some time. The officers are Charles C. Broadwater, president; Sven Johan Nordstrom, vice-president; Herbert S. Shuey, secretary and treasurer, who, with Charles W. Merrill and Louis D. Mills, form the board of directors. Mr. Merrill is president and Mr. Mills consulting engineer of the Merrill Company. Catalogue No. 5, issued by the valve company, gives full particulars about the valve.

Buffington Harbor, Indiana.

Buffington Harbor, Indiana, the newly completed deep-water harbor and dock at the plant of the Universal Portland Cement Company, B. F. Affleck, president, was formally opened on June 9, the occasion being distinguished with an excursion by steamer from Chicago, luncheon being served on board during the two-hour trip. The harbor consists of 2000 feet of rock-filled pier, which extends out to deep water, 1200 feet of breakwater, a concrete lighthouse, a concrete dock wall 1800 feet long and a dock and storage yard 600 feet wide, spanned by a traveling bridge carrying a trolley and a 10-ton bucket. Along the dock is a tunnel with belt conveyor, which carries stone directly from the yard to the cement plant. Calcite limestone is carried by steamers from Rogers City, Michigan, to the harbor.

President Elected.

At the annual business meeting of the Milwaukee Association of Industrial Advertisers, May 16, Howard Winton, general branch manager of the Heil Company of that city, was elected president of the association; last year he was vice-president. Mr. Winton was advertising manager of the Heil Company for more than eight years, but was recently promoted to his new position with them, although he continues to be active in their advertising work. R. E. Parmenter is now the advertising manager. H. P. Sigwald of the Milwaukee Corrugating Company was president of the association last year.

Acquire 31,000 Acres on Carolina Coast for Resort Development.

Confirming a report that he and associates have acquired 31,000 acres of land on the North Carolina coast for a big resort and recreational development, Allen R. Hueth of Asbury Park, N. J., wires the MANUFACTURERS RECORD that the first development will be the Virginia Dare Shores on Kitty Hawk Bay adjoining Kill Devil Hill, where it is planned to establish year-round home and recreational centers. Officers of Virginia Dare Shores, Inc., include Frank Stick, president; Elmer H. Geran, vice-president; Mr. Hueth, secretary, and Frank Winch, sales manager, all of Asbury Park.

The principal holdings of the company are located between Kitty Hawk Bay and Cape Hatteras on the proposed Virginia Dare Highway, from which connections will be made to State highways by bridges now being built or under contract. The entire development has been undertaken by the Carolina Development Company, with Virginia Dare Shores, Inc., and Shores Properties, Inc., as associate enterprises.

It is understood that the promoters of the project are investing \$585,000 in the land and may expend an additional \$500,000 for improvements, including casino, bath houses, 300-foot pier and wharf and other facilities on the shores of Kitty Hawk. A 32-ton concrete mixer has been acquired for the purpose of casting blocks of various colors and designs for the erection of from 15 to 20 bungalows. The main sales offices of the company will be located at Elizabeth City, N. C.

Research on Floodlight Glare Problem.

The National Automobile Chamber of Commerce has voted a fund to support the research of the Society of Automotive Engineers and the United States Bureau of Standards in seeking a remedy for automobile headlight glare. A fund has also been voted for the continuation of the annual safety essay contest of the Highway Research Board.

Its recent annual meeting was devoted largely to merchandising and transport problems. The belief was expressed that the better use of existing highways through building of

overpasses and opening dead-end streets, together with wider roads, improved lighting, more modern garage facilities, etc., will go far toward making traffic safer.

Officers elected were: Roy D. Chapin, president; Alvan Maucauley, first vice-president; Alfred H. Swayne, vice-president, passenger car division; Windsor T. White, vice-president, commercial car division; A. J. Brosseau, secretary, and H. H. Rice, treasurer.

500,000-Barrel Cement Mill in Arkansas to Cost \$1,400,000.

The Lund Engineering Company of Little Rock, Ark., engineers for the Lime Products Company, which is building a big cement mill at White Cliffs, near Ashdown, Ark., wire the MANUFACTURERS RECORD that a 500,000-barrel mill has been financed. It is planned to employ the wet process of manufacture in the plant, which will be electrically equipped, and to use coal or gas for fuel. The mill is expected to be ready for operation in about 60 days. Reports state that it will cost approximately \$1,400,000.

Contract for 17-Story Annex to Medical Arts Building, Dallas.

General contract for the erection of a 17-story annex to the Medical Arts Building, Dallas, Tex., has been awarded by the Cary-Schneider Investment Company to the McKenzie Construction Company of San Antonio, at \$420,000, according to advices from the contractors. Sub-contracts have not yet been awarded. The structure will be fire-proof, of brick, stone, steel, concrete and terra cotta. The Herbert M. Green Company is the architect and R. O. Jameson, structural engineer, both of Dallas. The ultimate cost of the annex, it is thought, will approximate \$1,000,000.

Sealed proposals will be opened on June 14 at the office of the State Highway Department, Columbia, S. C., for the construction of 15.43 miles of sand-clay road between Orangeburg and Branchville, in Orangeburg county.

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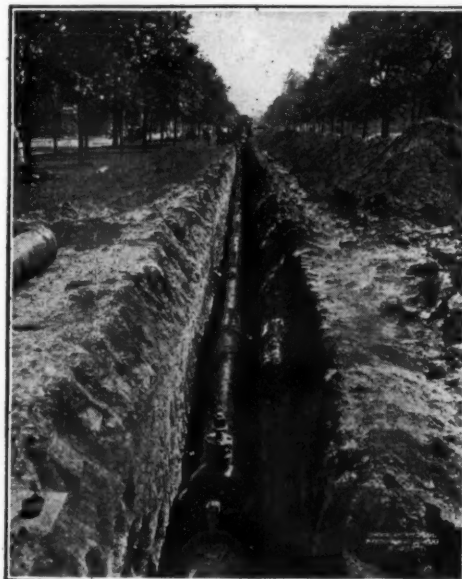
When you attend the Convention of the American Water Works Association, at Chicago, you will be visiting another Convention City where Leadite has proven successful.

Read This: Extract from The Annual Report of the City Engineer, City of Chicago to the Commissioner of Public Works, 1924:

"LEADITE used in pipe joints"

"1867 feet of 12-inch pipe were laid. The joints were made with Leadite at a total labor cost of 30 cents per foot which is about one-half of the cost where lead joints are made. There is a further saving in the cost of the material used—Leadite being cheaper per joint than lead. The pipe was tested to

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FINANCIAL NEWS

Bond Issues Proposed

Ala., Anniston—School—City, W. O. Ward, Ck., voted \$100,000 bonds. 5-19

Ala., Opelika—General Obligation—City H. K. Dickinson, Mayor, receives bids June 13 for \$23,000 optional maturity street improvement assessment bonds.

Ark., Fort Smith—Street—City, J. H. Parker, Mayor, defeated \$300,000 issue. 5-5

Fla., Cross City—School—Dixie County Board of Public Instruction, Josh Bell, Chmn., receives bids June 11 for \$40,000 \$500 denom. bonds.

Fla., Flagler Beach—Water Front Improvement—Town, Frank Owen, Ck., receives bids June 10 for \$75,000, 6%, \$1,000 denom. bonds.

Fla., Fort Lauderdale—Road—Broward County Commrs. plans \$365,000, 6%, \$1,000 denom. bond issue.

Fla., Fort Pierce—School—Board of Public Instruction, Mrs. Edgar Lewis, Supt. and Sec., receives bids June 21 for \$75,000, 6% bonds.

Fla., Jacksonville—Municipal Improvement—City Comm., M. W. Bishop, Sec., plans issuing and selling \$2,600,000 bonds: \$1,500,000, extension to sewers, drains, and sewerage system; \$800,000, street improvement; \$300,000, city's part of street grading, opening, paving, etc. 6-2

Fla., Sanford—School—Seminole County Board of Public Instruction, T. W. Lawton, Supt., receives bids June 11 for \$30,000 6%, \$1,000 denom. Oviedo Special Tax School Dist. No. 3 bonds; \$50,000 6%, \$1,000 denom. Longwood Special Tax School Dist. No. 2 bonds.

Fla., Sarasota—Road, Bridge—Sarasota County Commrs., J. R. Peacock, Ck., receive bids June 20 for \$450,000 6% bonds: \$250,000, bridge; \$200,000, highway.

Fla., South Jacksonville, Ind. Branch Jacksonville—City considering \$150,000 bond issue to cover purchase price of improvements installed in San Marco; Marcel Mazeau, City Engr.

Fla., St. Augustine—Eldredge & Co., and Lorenzo E. Anderson & Co., both New York, will sell at 100 and interest, \$35,000, first mortgage sinking fund 7% St. Augustine-Green Cove Springs Bridge Co. gold bonds (closed mortgage).

Fla., West Palm Beach—City, Chas. W. Figner, Ck., receives bids June 14 for \$1,005,000 5% general bonds; \$100,000 5%, \$1,000 denom. equipment bonds for fire, police and public works department.

Fla., West Palm Beach—Road, Bridge—Palm Beach County votes July 6 on \$660,000 bonds. Address County Commrs.

Ga., Americus—City voted \$68,000 bonds for water and sewer extensions, fire protection equipment. 5-12

Ga., Dalton—School—Dawson Consolidated School Dist. votes June 14 on \$15,000 6% \$500 and \$1,000 denom. bonds. Address Pres. Board of Trustees.

Ga., Moultrie—City plans \$100,000 bond issue; \$75,000, school; \$25,000, sewers and water main extensions; R. L. Oertle, Sec. Chamber of Commerce.

Ky., Benton—School—City votes June 18 on \$12,000 bonds. Address School Board.

La., Colfax—School—Grant Parish School Board, C. W. Williams, Pres., receives bids June 27 for \$70,000 5% \$1,000 Consolidated School Dist. No. 11 bonds; L. R. Nunn, Sec.

La., New Orleans—Board of Liquidation, L. B. Baynard, State Treas., plans receiving bids July 15 for \$2,000,000 bonds, for construction of Chef Menteur and Rigolets bridges, and completion of Hammond-New Orleans highway.

La., Opelousas—Highway—St. Landry Parish Police Jury receives bids July 5 for \$20,000 6% bonds.

Md., Rockville—Road—Montgomery County Commrs. may sell \$400,000 of \$800,000 bonds. 4-14

Md., Upper Marlboro—Road—Prince George's County Commrs., James C. Blackwell, Ck., receive bids June 21 for \$14,500 4% \$500 denom. lateral bonds.

Miss., Corinth—School—City, R. A. Hall, Ck., voted \$150,000 bonds; J. A. Lowe, Mayor. 5-19

Miss., Pascagoula—Seawall—Jackson County voted \$600,000 bonds; County Road Protection Comn. will sell \$600,000 bonds early in July. 5-12

Miss., Prentiss—School—City voted bonds. 6-2

Address School Trustees, Jeff Davis Lawrence Consolidated School.

Mo., Bonne Terre—School—Bonne Terre School Dist. voted \$100,000 bonds. Address Pres. Board of Trustees.

Mo., Columbia—City Hall—City, J. S. Bicknell, Ck., plans bond election.

N. C., Asheville—School—Buncombe County Board of Education, A. C. Reynolds, Supt. of Public Instruction, receives bids June 11 for \$107,000 \$1,000 denom. not to exceed 6% Oakley Special Tax School Dist. bonds.

N. C., Charlotte—Sewer—City, R. L. Brown, Commr. of Public Works, considering \$250,000 bond issue.

N. C., Greensboro—Incinerator—City, E. G. Sherrill, Ck., plans issuing \$16,000 bonds.

N. C., Mars Hill—Water Works—Town, R. Y. Tilson, Ck., receives bids June 11 for \$90,000 \$1,000 denom. bonds.

Okla., Purcell—Courthouse—McLain County voted \$80,000 bonds. Address County Commrs. 5-19

S. C., Charleston—Road—Mid-Coastal Dist. Highway Comn. plans receiving bids soon for \$657,000 bonds.

S. C., Greenville—Hospital—Greenville County may vote Sept. 13 on \$150,000 bonds. Address County Commrs.

Tenn., Altamont—School—Grundy County voted \$30,000 bonds. Address County Board of Public Instruction.

Tenn., Huntsville—Funding—Scott County defeated \$300,000 bond issue. Address County Commrs. 5-12

Tenn., Knoxville—School—City, Charlton Karns, Mgr., plans receiving bids June 15 for \$850,000 bonds. 6-2

Tenn., Maryville—School—Town votes June 30 on \$70,000 bonds. Address Town Recorder. 5-5

Tenn., Memphis—Sanitorium—Shelby County plans voting on \$100,000 bonds. Address County Commrs.

Tenn., Millington—Water Works—City voted \$10,000 bonds. Address City Ck.

Tenn., Pikeville—School—Bledsoe County voted \$65,000 bonds. Address County Commrs.

Tex., Abilene—School—North Park Independent School Dist., John R. Hutt, Supt., voted \$12,000 bonds.

Tex., Albany—School—School Board of Albany Independent School Dist., will call election on \$50,000 bonds; W. W. Willingham, Supt. of Schools.

Tex., Amarillo—Municipal Improvement—City, Jeff D. Bartlett, Mgr., voted \$1,300,000 bonds: \$900,000, water works; \$100,000, street and viaduct; \$300,000, sewer. 5-5

Tex., Big Springs—School—Board of Education, Dr. E. O. Ellington, Pres., plans calling election soon on \$250,000 bonds.

Tex., Brownsville—Road—Cameron County, Oscar C. Dancy, County Judge, receives bids June 15 for \$1,000,000 5% \$1,000 denom. bonds. 5-19

Tex., Crosbyton—Water Works—City voted \$25,000 bonds. Address The Mayor. 5-19

Tex., Decatur—Wise County Commrs. plan issuing \$50,000 highway repair warrants.

Tex., Floresville—Road—Wilson County votes July 2 on \$60,000 bonds; Fred E. Hess, County Engr.

Tex., Goliad—Road—Goliad County, J. A. White, County Judge, defeated \$1,250,000 bond issue. 4-23

Tex., Harrisburg—School—Harrisburg Independent School Dist. votes June 20 on \$400,000 bonds. Address Pres. Board of Trustees.

Tex., Henrietta—School—Henrietta Independent School Dist., votes June 11 on \$50,000 bonds; A. V. Slagle, Sec. Board of Education. 6-2

Tex., Jourdan—Road—Atascosa County, Earl D. Scott, County Judge, voted \$250,000 Road Dist. No. 2 bonds; Jas. V. Curnette, County Engr. 4-23

Tex., Lefors—Road—Gray County Commrs. Court may call election in July on \$250,000, Precinct No. 4 bonds. Address County Commrs.

Texas, Maryville—School—City, Election Commrs. plan calling bond election.

Tex., Malakoff—City voted bonds for school. Address City Ck.

Tex., Mission—Municipal Improvement—City, G. F. Dohrn, Mayor, receives bids June 16 for \$100,000 5½% bonds. 6-2

Tex., Palo Pinto—Palo Pinto County, E. L. Pitts, County Judge, votes June 25 on \$1,550,000 bonds: \$875,000, road refunding; \$675,000, road building.

Tex., Plainview—Municipal Improvement—City voted \$75,000 bonds: \$25,000, water works; \$30,000, street paving; \$20,000, sewer. Address The Mayor. 5-12

Tex., Port Arthur—Canal Revetment—City, J. P. Logan, Mayor, voted \$50,000, bonds. 5-26

Tex., Port Arthur—Paving—City, J. P. Logan, Mayor, plans \$320,000 bond issue.

Tex., Saltillo—School—Saltillo Independent School Dist. plans voting on \$20,000 bonds in near future. Address Pres. Board of Trustees.

Tex., San Antonio—School—Board of Education, Los Angeles Heights Independent School Dist. considering bond issue.

Tex., Sherman—Road—Grayson County votes July 15 on \$2,500,000 bonds; R. M. Carter, County Judge. 5-5

Tex., White Deer—Street—City votes June 15 on \$20,000 bonds. Address City Ck.

Va., Bristol—Water Works—City, P. A. Goodwyn, Mayor, considering calling election on \$800,000 bonds.

Va., Richmond—Municipal Improvement—City, Landon B. Edwards, City Comptroller, receives bids June 28 for \$2,265,000 4¼% \$1,000 denom. bonds: \$1,700,000, public improvement; \$300,000, gas works; \$200,000, water works; \$65,000, public library.

Va., Roanoke—Municipal Improvement—City votes July 12 on \$1,300,000 bonds for schools, streets, fire halls and sewerage system. Address City Ck.

W. Va., Princeton—Mercer County Court may call bond election for courthouse and road-building. Address County Commrs.

W. Va., Wellsburg—Schools Refunding—Wellsburg Board of Education, J. A. Gist, Sec., 727 Charles St., receives bids June 14 for \$45,000, 4½% and 4¾% bonds.

Bond Issues Sold

Fla., Bartow—School—Polk County Board of Public Instruction, Don Register, Chmn., sold \$100,000 6% Special Tax School Dist. No. 53 bonds to Brown-Crummer & Co., Wichita, Kansas, at 96 and accrued interest. 5-26

Fla., De Land—Highway—Merchants Bank and Trust Co., Daytona Beach, purchased \$115,000 certificates of indebtedness, at par and accrued interest, to build Ocean Shore Blvd. 4-23

Fla., Miami—School—Dade County Board of Public Instruction, sold \$750,000, 6%, \$1,000 denom. bonds, jointly, to Morris Mather & Co., Chicago, Ill., and Brown-Crummer Co., Wichita, Kansas, at \$705,020. 5-19

Fla., Monticello—Special Assessment—City sold \$10,500, 6% bonds to Farmers & Merchants Bank, Monticello, at 98.

Fla., Palmetto—Street Improvement—City, E. H. Mason, Ck., sold \$19,000 6% bonds to Ryan, Sutherland Co., Toledo, Ohio, at 96.14 and accrued interest. 4-19

Ga., Tybee—Lighting Equipment—Mayor and Board of Aldermen sold \$22,000, bonds to Citizens & Southern Co., Savannah, at \$22,354. 4-21

Ky., Covington—Funding—City, A. E. Stricklett, City Solicitor, sold \$240,000 4¼% bonds, jointly, to Davies-Bertram Co., and Well Roth & Irving Co., both Cincinnati, Ohio, at premium of \$5144. 6-2

Ky., Hopkinsville—Refunding—Christian County Commrs. sold \$102,020 4¾% bonds to Planters Bank and Trust Co., Hopkinsville, at premium of \$475.

Ky., Hopkinsville—Armory—Planters Bank & Trust Co., A. H. Eckles, Pres., Trustee, for proposed city and county public building and armory, sold \$40,000 of \$80,000, 6% bonds to Block, Fetter & Trost, Inc., Louisville.

Ky., New Castle—Road, Bridge—Henry County, Allie M. Banta, Ck., sold \$250,000, 4% bonds to J. C. Wilson & Co., Louisville, at premium of \$4,628. 5-19

La., Amite—School—Tangipahoa Parish School Board sold \$18,000 School Dist. No. 1 bonds to Sutherland, Barry & Co., New Orleans, at premium of \$15. 5-12

La., Many—Water Works—Mayor and Board of Aldermen sold \$50,000 bonds, jointly, to Peoples State Bank, and Sabine State Bank, both Many, at par. 4-28

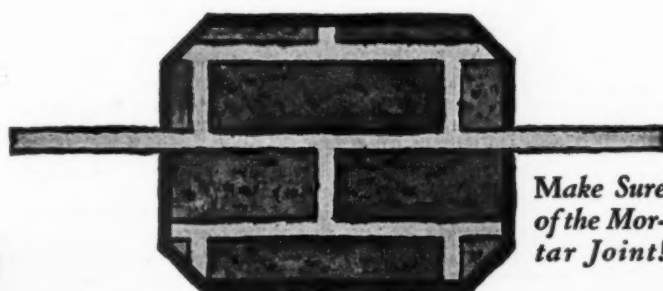
(Continued on page 124)

In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.



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FINANCIAL NEWS

(Continued from page 122)

Md., Hagerstown—Water Works—City, Ned R. Carlisle, Clk., sold \$1,000,000 4½% bonds to Stein Bros. & Boyce, Baltimore, at \$106.39 per \$100 par value, and accrued interest. 6-2

Md., Westminster—City sold \$40,000 4½% bonds to John P. Baer & Co., Baltimore, at 101.12.

Miss., Columbia—Municipal Improvement—City sold \$143,000 bonds to Commercial-National Bank & Trust Co., Laurel.

Mo., Jefferson City—Road—Board of Fund Comms. of State of Missouri, C. E. Stephens, State Treas., sold \$5,000,000, 4½%, \$1,000 denom. bonds to syndicate composed of Mississippi Valley Trust Co., St. Louis; Guaranty Trust Co., Ames, Emerich & Co., Detroit Co., Barr Brothers & Co., Howe, Snow & Bertles, Frazier Jelke & Co., all New York; Marshall Field, Glore, Ward & Co., Chicago, Ill.; First National Co., Detroit, Mich.; Fidelity National Bank & Trust Co., Stern Brothers & Co., both Kansas City, Mo., at \$5,157,200. 5-12

N. C., Lumberton—Road, Bridge Funding—Robeson County Comms., David H. Fuller, County Atty., sold \$100,000 4½% bonds to C. A. McNear & Co., Chicago, Ill., at \$100,650. 5-19

N. C., Newton—Water Works—Town, Clarence Clapp, Clk. and Treas., sold \$35,000 5% bonds to Ryan, Sutherland & Co., Toledo, Ohio, at \$35,841 and accrued interest. 5-19

N. C., Statesville—Municipal Improvement—City, John L. Milholland, Clk. and Treas., sold \$150,000 4½% bonds to American Trust Co., Charlotte, at \$152,625 and accrued interest. 5-19

Okl., Ada—Municipal Improvement—City, Lee Daggs, Clk., sold \$62,500 4½% bonds to Oklahoma State Bank, Ada, at premium of \$1,350. 5-5

S. C., Columbia—Highway—Capital Highway Commr., B. W. Crouch, Chmn., sold \$2,000,000 4½% \$1000 Richland, Lexington and Saluda Counties bonds, jointly, to Weil, Roth & Irving Co., Seaboard & Mayer, Provident Savings Bank and Trust Co., all Cincinnati; Prudden & Co., W. L. Slayton & Co., both Toledo; Columbia National Bank, Columbia; Robinson-Humphrey Co., George H. Burr & Co., both Atlanta; M. F. Schlater & Co., New York, at \$2,042,500. 5-26

Tenn., Jasper—Road—Marion County, C. T. Williamson, County Judge, sold \$145,000, 4½% bonds to Little, Wooten & Co., Jackson, Tenn., at premium of \$4,150. 6-2

Tenn., Johnson City—Funding—City, T. H. McNeil, Recorder, sold \$150,000 bonds to Caldwell & Co., Nashville. 5-26

Tenn., Johnson City—Paving—City sold \$125,000 bonds to Little, Wooten & Co., Jackson, Tenn., at premium of about \$4000.

Tenn., Millington—Water Works—City sold \$10,000 bonds to Little, Wooten & Co., Jackson, Tenn.

Tex., Amarillo—Municipal Improvement—City, Jeff D. Bartlett, Mayor, sold \$1,300,000, 4½% bonds to Branch-Middlekauff Co., Wichita, Kan.; par and accrued interest. 5-26

Tex., Angleton—Water Works—City, E. R. Cannan, Mayor, sold \$38,000, 5½% bonds to Garrett & Co., Dallas. 5-12

Tex., Houston—Refunding Bridge—Harris County Comms. sold \$701,000 bonds jointly, to C. W. McNear & Co., Chicago, Ill., and Stifel, Nicholas & Co., St. Louis, at premium of \$2,250.

Tex., Houston—Municipal Improvement—City, W. A. Moore, Sec., sold \$3,675,000, 4½%, \$1,000 denom. bonds to Halsey, Stuart & Co., Chicago, Ill., at par, accrued interest and premium of \$74,821.50. 5-12

Building and Loan Associations

Ga., Moultrie—Fidelity Building & Loan Assn., 114 N. Main St., capital \$1,000,000, organized; N. W. Majors, Pres.; Ben W. Daniel, V.-P.; Park Harper, Sec.-Treas. 5-26

Va., Winchester—Shawnee Building & Loan Assn., capital \$100,000 to \$500,000, chartered; James P. Reardon, Pres.; Chas. W. Trenary, V.-P.; E. J. Carlson, Sec.-Treas.

New Financial Corporations

Fla., Miami—Red Bank Investment Co., capital \$10,000, chartered; T. J. Lummus, H. F. War, 1311 Alhambra Circle.; Myrtle Foster.

Fla., St. Petersburg—B. & M. Mortgage Co., Inc., re-organized; J. H. Rodgers, Pres.;

827 Central Ave., M. Eva Parsons, Sec.-Treas. Miss., Jackson—R. E. Kensington, Jackson, Pres. of Million Dollar Mississippi Rehabilitation Finance Corp., chartered, with \$2,000,000 capital.

Miss., Pascagoula—Motor Finance Co., capital \$20,000, incorporated; J. W. Brumfield, H. W. Gautier, E. H. Bascot.

N. C., Apex—Bank of Apex, capital \$100,000, incorporated; A. B. Hunter, W. T. Hunt, H. O. Holland; formed by merger of People's Bank and Merchants' and Farmers' Bank.

W. Va., Bluefield—Royal Loan Co., capital \$25,000, chartered; W. C. Mitchell, Floyd Carter, C. H. Kirtney.

Beaumont Building and Loan Co., S. G. Burnett, Pres., Beaumont, Tex., increases capital, \$3,000,000 to \$10,000,000.

Jefferson County Investment and Building Assn., Beaumont, Tex., plans increasing capital, \$3,000,000 to \$10,000,000.

McDowell County National Bank, I. J. Rhodes, Pres., Welch, W. Va., has taken over assets and liabilities of Merchants and Miners Bank, B. O. Swope, Pres.

Wright Investment Co., Dallas, Tex., plans increasing capital, \$50,000 to \$60,000.

Carter Stewart, V.-P. of Public National Bank, Houston, Tex., and associates, purchased controlling interest in Channel State Bank, Magnolia Park, Houston, capital \$25,000; O. M. Longnecker, Treas. Southern Pacific Lines; Carter Stewart, J. B. York, of law firm of York & Neeld, and others, Board of Directors.

Southwest Joint Stock Land Bank, of Little Rock, Ark., M. F. Dickinson, Pres., increased capital \$250,000 to \$350,000.

Texas Plains Building and Loan Assn., J. M. Reed, Pres., 210 Western Ave.; J. W. Murdock, Sec., Amarillo, Tex., plans increasing capital, \$1,000,000 to \$10,000,000.

Essentials of Public Speaking. By Warren C. DuBois, A. B., A. M., LL. B. New York: Prentice-Hall, Inc. 1926. Cloth. Pp. 268. \$2.

It is vitally necessary to know how to speak in public, whether it be at a business dinner, an executive session, a committee gathering, a salesman's conference, a formal or informal dinner or other social function. To be able to gain personal prestige through the preparation and delivery of a good speech, a convincing committee report or a persuasive argument is an achievement worthy the ambition of every enterprising, successful business or professional man. The author of this book is a well-known New York trial lawyer and an instructor of public speaking at the New York University. It embraces, in charming, compact style, a brief but comprehensive summary of the fundamentals of effective speaking as the author has taught them for the past 14 years. The practical methods and principles presented can be successfully applied on all occasions. Few among those wishing to develop speechmaking qualities have the time in which to carry out extensive programs calling for selective reading as required by the average book on the subject. This important difficulty is readily overcome in Mr. DuBois' excellent treatment, which reveals the author's skillful university experience in teaching effective speaking. The abundant practice material and exercises provide helpful guidance, so that anyone might use the book with profit.

Social Justice: The Moral of the Henry Ford Fortune. By Charles Norman Fay. Cambridge, Mass.: The Cosmos Press. 1926. Paper. Pp. 270.

In the "Dedication" of this little book Mr. Fay, who has occupied several prominent positions in business, addresses it "To students of American politics in the leagues, the clubs, the churches, the colleges and the schools: Ladies and Gentlemen." In the

pages devoted to these preliminary remarks he gives a scoring to the teachings of Karl Marx and Samuel Gompers in a most convincing style, and points out clearly that it is inherent in human nature to desire and claim for ourselves the full rewards of our mental and physical work; that we are not willing that there should be equal distribution of earnings when, as is the case, there is not equal effort and constant work, which latter is characteristic of our great business leaders. In the book itself he points out that the Marxian notion of making the State the source of everything is lacking because "History is at least 6000 years old and covers hundreds of States and dynasties; yet certainly not one of them has ever produced a Ford car, or an Edison light, or a Bell telephone, or a barrel of Pillsbury flour, or a pound of Armour beef, or any other of the 10,000 necessities of our daily life." The dependability of individualism is thus strongly put and the rest of the book is written in similarly convincing style. It is wholly interesting and merits attentive perusal.

Business in Politics: Considerations for Business Leaders. By Charles Norman Fay, Cambridge, Mass. The Cosmos Press, Inc. 1926. Cloth. Pp. 174. \$1 and postage.

Mr. Fay says he is printing this book privately and is distributing it as far as possible by mail to reach the limited number of readers to whom such writings appeal. He has written other books which have appeared in the past, among them being "Labor in Politics," "Too Much Government; Too Much Taxation" and "Big Business in Government." He is a member of the Boston Chamber of Commerce and was formerly vice-president of the National Association of Manufacturers; also president of the Chicago Gas Trust Company, the Indiana Natural Gas and Oil Company, the Chicago Arc Light and Power Company and the Remington-Sholes Typewriter Company, besides having been vice-president and general manager of the Chicago Telephone Company. In the dedication of the book to "the members of the chambers of commerce and the great business associations throughout the United States," he points out that today, "by means of the great business organizations, there exists such adequate machinery for co-operative action in economics and politics as to make it a simple matter even for busy men to count in politics without losing count in business." "For government," he says, "is nothing but big business—the biggest kind of business." Of politicians he says: "I would not belittle such men or their ambitions or their honesty, which must average up with the rest of us . . . To say the very best of our professional politicians, they are in everything but politics very average men." To this he adds: "I do not believe in government by average men." These quotations from Mr. Fay's little volume will afford the reader a general idea of his argument, all of which merits the attention of thoughtful and earnest citizens.

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In writing to parties mentioned in this department it will be of advantage to all concerned if the Manufacturers Record is mentioned.

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BOND ISSUES

PROPOSALS

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Bids close June 14, 1927.

PROPOSALS FOR MANEUVER BOAT. U. S. ENGINEER OFFICE, HUNTINGTON, W. VA.—Sealed proposals will be received here until 11 A. M. June 14, 1927, and then opened, for furnishing one steel maneuver boat. Further information on application.

Bids close June 21, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 31, 1927. SEALED BIDS will be opened in this office at 3 P. M. June 21, 1927, for reconstructing gangway, changes of wharf, etc., for U. S. Q. S., Marcus Hook, Pa. Drawings and specifications may be obtained from Medical Officer in charge or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 21, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 31, 1927. SEALED BIDS will be opened in this office at 3 P. M. June 21, 1927, for boiler house (addition to disinfecting and bath building), including mechanical equipment, Marcus Hook, Pa., U. S. Q. S. Drawings and specifications may be obtained from the Medical Officer in charge or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 23 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 23, 1927. SEALED BIDS will be opened in this office at 3 P. M. June 23, 1927, for furnishing and installing one new heating boiler, connections, etc., in the United States Postoffice, Columbus, Ga. Drawings and specifications may be obtained from the Custodian or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 24, 1927.

TREASURY DEPARTMENT, Supervising Architect's Office, Washington, D. C., May 24, 1927. SEALED BIDS will be opened in this office at 3 P. M. June 24, 1927, for furnishing and installing one new boiler, connections, etc., in the National Home for Lepers, Carville, La. Drawings and specifications may be obtained from the Custodian, National Home for Lepers, Carville, La., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 20, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 19, 1927. SEALED PROPOSALS will be opened in this office at 3 P. M. June 20, 1927, for Removing Old Water Piping and Installing New Brass Water Piping, etc., in the U. S. Postoffice and Courthouse, Wilmington, N. C. Drawings and specifications may be obtained from the Custodian, U. S. Postoffice and Courthouse, Wilmington, N. C., or from this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

Bids close June 29, 1927.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., May 27, 1927. SEALED BIDS, in duplicate, will be received until 3 P. M. June 29, 1927, and then publicly opened, for furnishing all labor and materials and performing all work for improving existing facilities, etc. (new heating system) at the United States Quarantine Station, Galveston, Texas. Drawings and specifications may be obtained from the officer in charge at the station or at this office, in the discretion of the Supervising Architect. Jas. A. Wetmore, Acting Supervising Architect.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTERS: When too late to send

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Bids close June 24, 1927.

\$250,000 4½ % Municipal Bonds

Annapolis, Md.

In accordance with the provisions of Chapter 245 of the Acts of 1927 of the General Assembly of Maryland, the Mayor, Counselor and Aldermen of the City of Annapolis will receive bids on the 24th day of June, 1927, at 12 o'clock noon at the Municipal Building, Annapolis, Maryland, for Coupon Bonds in the amount of \$250,000 in denominations of \$1000, dated June 1, 1927, bearing interest at the rate of 4½% per cent per annum, known as the City of Annapolis Water Improvement Bonds of 1927.

Said issue of bonds being authorized by said Act of the General Assembly of Maryland and adopted by a majority of the votes cast by the legally qualified voters of the City of Annapolis at a special election held in said city on May 18, 1927.

Bonds are guaranteed by the Mayor, Counselor and Aldermen of the City of Annapolis and are exempted from State, county and municipal taxes of every kind whatsoever in the State of Maryland.

A deposit of 5% of the bid will be required.

ADDIE R. TONGUE,
City Clerk.

Bids close June 21, 1927.

\$63,400 Improvement Bonds

Kingsport, Tenn.

Sealed bids will be received until 8 o'clock P. M. June 21, 1927, at which time they will be opened and read publicly, for \$20,000 5½% Public Improvement Bonds, dated June 1, 1927, in denomination of \$1000 each, maturing 20 years from date of issue, interest payable semi-annually on June 1 and December 1 of each year, and \$23,100 6% City Improvement Bonds, dated June 1, 1927, in denominations of 22 bonds \$1000 each, one bond \$600 and one bond \$500, maturing 20 years from date of issue, interest payable semi-annually on June 1 and December 1 of each year, and \$20,300 6% Improvement District Bonds, dated July 15, 1927, in denominations satisfactory to the purchaser, interest payable annually on the 15th day of July of each year.

The Improvement District Bonds mature on the 15th day of July as follows: \$2250 each year 1928 to 1932, inclusive; \$2200 each year 1933 and 1934; \$2100, 1935, and \$2550 in 1936.

A certified check for \$1000, payable to G. D. Black, City Treasurer, must accompany each bid, and all bids should be addressed to F. L. Cloud, City Manager, and marked "Sealed Bids for Bonds."

Opinion approving the legality of the bonds will be furnished by Messrs. Thomson, Wood & Hoffman, Attorneys, New York City, and all expense in connection with the preparation and printing of the bonds will be borne by the City of Kingsport.

The Board of Mayor and Aldermen of the City of Kingsport reserves the right to reject any and all bids.

F. L. CLOUD, City Manager.

\$75,000 6% School Bonds

Fort Pierce, Fla.

The Board of Public Instruction for St. Lucie County, Florida, will sell on June 21, 1927, \$75,000 of 6% school bonds, maturity dates as follows: \$3000, 1930; \$4000, 1933; \$5000, 1936; \$6000, 1939; \$7000, 1942; \$9000, 1945; \$12,000, 1948; \$14,000, 1951; \$15,000, 1954.

Opinion by Caldwell & Raymond, New York, N. Y.

Bids close July 1, 1927.

Caddo Parish Bridge

Shreveport, La., June 3, 1927.

Sealed proposals will be received by the Police Jury of Caddo Parish, La., at Room 621 Slattery Building, Shreveport, La., until 10 o'clock A. M. July 1, 1927, for the construction of Soda Lake Bridge, 15 miles northwest of Shreveport, La.

APPROXIMATE QUANTITIES.

Concrete (Class A), 147 cu. yds.
Concrete (Class D), 52 cu. yds.
Reinforcing Steel, 26,420 pounds.
Untreated Foundation Piling, 900 lin. ft.
Treated Piling (Approach Trestle), 2740 lin. ft.

Untreated Lumber, 41 M. B. M.
Treated Lumber, 16 M. B. M.
Wet Excavation, 313 cu. yds.
Rolled Beams (Trestle Stringers), 121,349 pounds.

Structural Steel (110-ft. Span), 114,900 pounds.

Separate bids also on 29,000 cu. yds. earth work in approaches.

Plans and specifications may be obtained at the office of the undersigned upon deposit of \$3.00.

The right is reserved to reject any or all bids and to accept any bid.

J. T. BULLEN, Parish Engineer,
Room 618 Slattery Building,
Shreveport, La.

Bids close June 14, 1927.

Road Protection

Bay St. Louis, Miss.

Sealed bids will be received by the Road Protection Commission of Hancock County until

TUESDAY, JUNE 14, 1927,
at 11 o'clock A. M., at the Courthouse, Bay Saint Louis, Mississippi, for constructing a road protection along Bay Saint Louis extending approximately three (3) miles north and six and seven-tenths (6.7) miles south of the existing road protection.

The approximate quantities are as follows:

CONTRACT "A."

48,800 lin. ft. Stepped Type Concrete Wall.

2679 lin. ft. Drain Pipe 12-in.x36-in. diameter.

1104 cu. yds. Concrete in culverts.

88,920 lbs. Reinforcing Steel in culverts.

10,850 cu. yds. Earth Excavation.

261,500 cu. yds. Dredged Earth Fill.

Plans and specifications may be reviewed at the office of the Chancery Clerk, Hancock County, Bay Saint Louis, Mississippi.

Copies may be had upon application to J. W. BILLINGSLEY, Consulting Engineer.

Interstate Bank Building, New Orleans.

A charge of \$20, which will not be returned, will be made for plans and specifications.

A certified check for five (5%) per cent of the total amount of bid, made payable to the Board of Supervisors of Hancock County, must accompany each bid.

The right is reserved to waive formalities and reject all bids.

This, the 18th day of May, 1927.

R. C. ENGMAN,
Chairman, Hancock County
Road Protection Commission.

Bids close July 6, 1927.

Bridge Foundation Piers and Approach Trestles

Baton Rouge, La.

Sealed proposals will be received by the Louisiana Highway Commission at their office in the Raymond Building, Baton Rouge, Louisiana, up to 11 o'clock A. M.

WEDNESDAY, JULY 6, 1927,

at which time and place they will be publicly opened, for the construction of:

The Chef Menteur and Rigolets Bridge Foundation Piers and Approach Trestles, twenty-two and twenty-eight miles, respectively, northeast of New Orleans, Louisiana, on the Chef Menteur Highway, Orleans and St. Tammany Parishes, Federal Aid Projects No. 201, State Route No. 2, Section "D," Unit No. 1 and Section "F," Unit No. 1.

The work contemplated consists of furnishing all materials, labor, equipment, etc., necessary to build the foundation piers for steel superstructures and the approach trestles to two bridges. The Chef Menteur bridge will consist of two 250-ft. steel fixed spans, one 270-ft. steel swing span and three 33-ft. reinforced concrete deck girder spans on each and resting on precast concrete pile bents. The following approximate quantities are for the five foundation piers, six concrete girder spans and six concrete pile bents involved in Chef Menteur Bridge:

- 7,400 Cubic Yards Structural Excavation.
- 16 Cubic Yards Class A-A Concrete in Handrail.
- 3,600 Cubic Yards Class A Concrete in Girders, Piers and Pile Caps.
- 230 Cubic Yards Class A Concrete in Seal Course for Piers.
- 5,200 Cubic Yards Class B Concrete in Pier Bases.
- 900 Cubic Yards Class B Concrete in Seal Course for Piers.
- 252,000 Pounds Reinforcing Steel.
- 1,125,000 Pounds Fabricated Structural Steel in Caissons.
- 1,440 Lineal Feet Precast Concrete Piling.

The Rigolets Bridge will consist of three 400-ft. steel fixed spans, one 400-ft. steel swing span, three 43-ft. reinforced concrete deck girder spans on south end and fifty 43-ft. reinforced concrete deck girder spans on the north or Slidell end and concrete girder spans resting on precast concrete pile bents. The following approximate quantities are for the six foundation piers, fifty-three concrete girder spans and fifty-three concrete pile bents involved in the Rigolets Bridge:

- 9,700 Cubic Yards Structural Excavation.
- 172 Cubic Yards Class A-A Concrete in Handrail.
- 7,870 Cubic Yards Class A Concrete in Girders, Piers and Pile Caps.
- 275 Cubic Yards Class A Concrete in Seal Course.
- 6,200 Cubic Yards Class B Concrete in Pier Base.
- 1,080 Cubic Yards Class B Concrete in Seal Course.
- 1,000,000 Pounds Reinforcing Steel.
- 1,137,000 Pounds Fabricated Structural Steel in Caissons.
- 18,400 Lineal Feet Precast Concrete Piling.

Separate bids will be received, contracts executed and bonds required for each of the above-described bridges, but a combination bid may be submitted covering work on both bridges, and if contract is awarded on this basis the work will be separated into two contracts and bond required for each.

Information as to the location, character of work, extent and class of material, terms of payment, regulations governing manner of submitting proposals and executing contract may, on application, be obtained at the office of the Louisiana Highway Commission, Raymond Building, Baton Rouge, Louisiana. Plans and specifications may be inspected at the office of the Commission in Baton Rouge or will be furnished upon receipt of \$5.00 for Chef Menteur Bridge, \$5.00 for Rigolets Bridge or \$8.00 for both bridges as payment therefor, not to be refunded. Each bid shall be submitted on a form furnished by the Commission and shall be placed, together with the proposal guaranty, in a sealed envelope so marked as to indicate its contents without being opened. This envelope shall then be placed in another, which shall be sealed and addressed to the LOUISIANA HIGHWAY COMMISSION, REYMOND BUILDING, BATON ROUGE, LOUISIANA.

FRANK T. PAYNE,
Chairman Louisiana Highway Commission.
J. M. FOURMY,
State Highway Engineer.

Bids close June 16, 1927.

Road Construction

Brownsville, Texas.

Sealed proposals addressed to the Commissioners' Court of Cameron County for construction of the Roads listed below will be received at the office of the County Auditor at Brownsville, Texas, until 10 o'clock A. M. on Thursday, June 16, 1927, and then publicly opened and read.

DESCRIPTION OF WORK TO BE DONE:

A. CONCRETE PAVEMENT ON:

1. Boca-Chica Road, from City Limits of Brownsville on 14th street via El Jardin Boulevard to Drain Ditch, approximately 6.5 miles.
2. San Benito-Rio Hondo Road, from end of pavement near San Benito to the Arroyo Colorado Bridge at Rio Hondo, approximately 7.6 miles.
3. San Benito-River Road, from end of pavement near San Benito to the Military Road, approximately 6.1 miles.
4. La Feria-Santa Rosa Road, from La Feria to Santa Rosa, approximately 6.8 miles.
5. Harlingen-Rio Hondo Road, from City Limits of Harlingen to Arroyo Colorado Bridge at Rio Hondo, approximately 9.1 miles.

B. GRADING AND STRUCTURES ON:

1. Paredes Line Road, from Highway Number 100 northward to the Arroyo Colorado, approximately 17.5 miles.
2. Camino de Buena Vista, from Highway Number 100 near Esos to the south line of the Al Parker Ranch, approximately 10 miles.
3. Old Point Isabel Road, from Brownsville City Limits to Ford's corner, approximately 3.8 miles.
4. Paredes Line Road, from Brownsville City Limits to Highway Number 100, approximately 10.6 miles.
5. Rangerville Road, from Highway Number 12 near Arroyo Colorado Bridge to Rangerville, approximately 6.3 miles.
6. Blue-Town Road, from Arroyo Colorado Bridge to Military Road, approximately 4.0 miles.
7. Military Road, from Blue-Town via Santa Maria to County Line, approximately 3.0 miles.
8. Palmetal Boulevard, from Harlingen City Limits eastward, approximately 2.6 miles.
9. Grimes Road, from Harlingen-Rio Hondo Road eastward, approximately 2.6 miles.
10. Briggs Road, from Harlingen-Rio Hondo Road northward, approximately 2.5 miles.
11. Billworth Crossing Road, from Highway Number 12 southward to Arroyo Colorado, approximately 2.5 miles.
12. Road, from Highway Number 12 at Stuart Place Schoolhouse northward to the south line of Wilson Tract, approximately 2.3 miles.
13. Road, from Highway Number 96 to and along the south line of Wilson Tract to the Behlmer Corner, thence northward by Wilson Tract Schoolhouse, approximately 5.5 miles.
14. Road, from Wilson Tract Schoolhouse eastward to Highway Number 96, approximately 2.6 miles.

Detail Plans and Specifications and other information for each road to be improved may be obtained at the office of W. O. Washington, County Engineer, in the Court-house at Brownsville, Texas.

A certified check for five per cent of the amount of bid, made payable to the order of Oscar C. Dancy, County Judge of Cameron County, must accompany each proposal as a guaranty that the bidder, if successful, will enter into contract and furnish bond in accordance with the specifications.

The right is reserved by the Commissioners' Court to reject any and all proposals and to waive technicalities.

Proposals must be submitted in sealed envelopes and marked "Bid for Construction of Roads."

J. J. BISHOP,
County Auditor of Cameron County.
W. O. WASHINGTON,
County Engineer.

Bids close June 21, 1927.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building seven sections of State Highway as follows:

- Allegheny County, Cont. 48-A—One section of State Highway between Frostburg and Midland for a distance of 5.0 miles. (Concrete Shoulders.)
- Washington County, Cont. W-32—One section of State Highway through Smithsburg for a distance of 0.67 mile. (Concrete Shoulders.)
- Baltimore County, Cont. B-84—One section of State Highway along Bellona avenue and the Ruxton Road, from Charles Street avenue to the Falls Road, for a distance of 3.05 miles. (Concrete Shoulders.)
- Frederick County, Cont. F-102—One section of State Highway from the Frederick City Line toward Yellow Springs for a distance of 1.0 mile. (Macadam Resurfacing.)
- Calvert County, Cont. C-28—One section of State Highway from Lusby toward Solers for a distance of 2.0 miles. (Gravel)
- Queen Anne's County, Cont. Q-39—One section of State Highway from Sudlersville toward Duhamel Corner for a distance of 1.40 miles. (Concrete.)
- Somerset County, Cont. S-26—One section of State Highway through Lawsonia for a distance of 1.50 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 21st day of June, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 2nd day of June, 1927.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close June 27, 1927.

Electrical Plant Construction

Jacksonville, Fla.

Sealed proposals will be received by City Commission of Jacksonville, Florida, until 8 P. M. on Monday, June 27, 1927, for doing of the following construction and furnishing the following new equipment for the City Electric Light Plant on Talleyrand avenue, in the City of Jacksonville, Florida:

1. Extensions to and changes in building.
2. Structural steel work.
3. Steel windows and operating gear.

All of said construction and equipment shall be in accordance with plans and specifications therefor on file in office of the City Commission of Jacksonville and on file in office of Scofield Engineering Company, consulting engineers, Philadelphia, Pa., from whom copies of same may be obtained upon deposit of \$25 per specification, which will be refunded upon return of specifications to said engineering company. A certified check on a Jacksonville bank or cashier's check on any national bank in a sum not less than five (5%) per cent of the amount of bid, made payable to Chairman City Commission, must accompany each bid as a guarantee that bidder will, if awarded the contract, promptly enter into agreement to furnish said equipment or perform the work. Each bid shall be in triplicate and addressed to City Commission, marked as bid for corresponding item, and delivered through mail or otherwise at office of the Secretary, Room 13 City Hall, Jacksonville, Florida. The Commission reserves the right to reject any or all bids, to waive informalities, accept any bid in whole or in part or to consider alternate bids upon recommendation of the said consulting engineers.

FRANK H. OWEN, Chairman.

Attest:
M. W. BISHOP, Secretary.

Bids close July 1, 1927.

Caddo Parish Highways

Shreveport, La., June 3, 1927.

Sealed proposals will be received by the Police Jury of Caddo Parish, La., at Room 621 Slattery Building, Shreveport, La., until 10 o'clock A. M. July 1, 1927, for the construction of Bridges and Structures, Forb-ing Caspiana Road.

APPROXIMATE QUANTITIES.
Reinforcing Steel, 48,576 pounds.
Creosoted Timber Trestle Piling, 1560 lin. ft.
Untreated Lumber, 23 M. B. M.
Creosoted Lumber, 9 M. B. M.
Rolled Beams (Trestle Stringers), 68,259 pounds.

Concrete (Class A), 368 cu. yds.
Culvert Pipe (placing only), 1700 lin. ft.
Rip Rap, 60 cu. yds.
Bridge Rail (Concrete), 36 lin. ft.
Also separate bids on 71,000 cu. yds. of earth work.
Plans and specifications may be obtained at the office of the undersigned upon deposit of \$3.00.

The right is reserved to reject any or all bids and to accept any bid.

J. T. BULLEN, Parish Engineer,
Room 618 Slattery Building,
Shreveport, La.

Bids close June 14, 1927.

Highway Construction

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building four sections of State Highway as follows:

Baltimore City, Cont. BC-69—One section of State Highway along the Hillen Road between 35th street and Argonne Drive, a distance of 0.70 mile. (Sheet Asphalt.)

Howard County, Cont. Ho-28—One section of State Highway along Cherry Lane between the Clarksville Pike and the New Cut Road for a distance of 1.20 miles. (Concrete.)

Howard County, Cont. Ho-44—One section of State Highway on the Cooksville-Olney Road from the end of Cont. Ho-21 to Coombs Corner, a distance of 1.40 miles. (Concrete.)

Wicomico County, Cont. WI-44—One section of State Highway between Catch Penny and White Haven for a distance of 1.10 miles. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 14th day of June, 1927, at which time and place they will be publicly opened and read.

Bids must be made upon the blank proposal form, which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission.

The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 26th day of May, 1927.

JOHN N. MACKALL, Chairman.
L. H. STEUART, Secretary.

Bids close June 22, 1927.

Traffic System

Fayetteville, N. C.

Sealed proposals will be received by the Police Committee of the Board of Aldermen of the City of Fayetteville, North Carolina, until 8 P. M. Wednesday, June 22, 1927, at the City Hall, Fayetteville, N. C., for furnishing and installing a complete traffic system.

Bidders are to take notice that they are to furnish their own plans and specifications, from which a selection will be made.

The City of Fayetteville, N. C., reserves the right to reject any and all bids, and to award the contract in a manner as may appear to be the best interest of the city.

J. R. HARRISON,
Chairman Police Committee,
City of Fayetteville, N. C.

Bids close June 20, 1927.

Extension of Sanitary Sewerage

Culpeper, Va.

Bids are invited until 8 o'clock P. M. on Monday, June 20, 1927, on furnishing all materials and labor and constructing certain extensions to the West District of Sanitary Sewers and comprising the following:

The Intercepting Sewer, from Sta. 36.60 to Sta. 59.68.

On West Street, between Chandler and Culpeper Streets.

The Outfall Sewer from West Street to Blue Ridge Avenue.

On West Street southward from Park Avenue to the end.

On Blue Ridge Avenue between Asher Street and Spring Street.

On Asher Street to the Interceptor.

On Park Avenue from West Street to the Interceptor.

The Outfall Sewer between Park Avenue and Spring Street.

On Spring Street from West Street to the Interceptor.

The above includes approximately 9241 feet of 6-inch, 8-inch, 10-inch and 15-inch sewers, with some cast-iron sections; also 24 manholes, 3 lamp holes and 3 flush manholes.

Each bid must be accompanied with a certified check or cashier's check (not a bidder's bond) in the sum of \$500, which will become a forfeit to the Town of Culpeper if contract be not entered upon and indemnity bond executed promptly after the award.

The bidder to whom the contract may be awarded will be required to execute an indemnity bond in the sum of \$7500 with some satisfactory guaranty company to safeguard the proper performance of the contract.

Plans and specifications may be seen at the office of the Chairman of the Water and Sewer Committee, and may be had from him alone on receipt of a check for \$10.

This check will be returned only to parties who may have submitted bona fide bids and returned the plans and specifications in good condition, both being done before the date set for closing bids.

The Town of Culpeper reserves the right to reject any or all bids.

R. F. BOOTON,
Chairman Water and Sewer Committee,
Culpeper, Virginia.

Bids close July 11, 1927.

Men's Field House

WEST VIRGINIA UNIVERSITY,
MORGANTOWN, W. VA.

Charleston, W. Va.

Sealed bids will be received by the State Board of Control at its office in Charleston, West Virginia, until 2.00 P. M. Monday, July 11, 1927, for doing all the work and furnishing all material necessary to complete the building described below, according to the plans and specifications of Davis, Dunlap & Barney, Architects, 1805 Walnut Street, Philadelphia, Pa.

The Building consists of a one storied playing field, a two-and-one-half storied locker unit adjacent to it.

The playing field has an area of 267' 5"x36' without columns, and a height of 36' under the trusses; metal sawtooth skylights; earth floor.

Locker rooms are in two levels, 382' 2"x35', and complete with toilet rooms, shower rooms, administration and the like. Above the locker level is a spectators' gallery seating 2000, open to the playing field; plank and steel construction with sawtooth skylights over.

Structure in general is of steel skeleton construction, plank and slag roof, brick walls, with cut stone trim, terra cotta interior partitions, cement and wood floors (except field), metal stairways, metal sash, wood interior doors, metal trim, one area reinforced concrete, metal toilet partitions. Inside and outside painting; no plaster.

Plumbing includes showers, toilet rooms and drainage. Electrical work includes wiring and fixtures. Heating, steam from central heating plant.

Plans, specifications and blank form for bids will be mailed by the State Board of Control when request is accompanied with check in the sum of \$25.00, which amount will be refunded upon receipt of bona-fide bids on or before the date named above, and the return of the plans.

STATE BOARD OF CONTROL,
By JAMES S. LAKIN, President,
Charleston, Kanawha Co., W. Va.

Bids close June 14, 1927.

Trenching Machine

Tallahassee, Fla.

Bids will be received by the City Auditor and Clerk of the City of Tallahassee until 12 o'clock noon June 14 for one Trenching Machine, price not to exceed \$6000, with the following requirements:

Minimum ditch 21 inches wide, 6 feet deep, with vertical boom capable of digging post holes, full crawler mounted, with conveyor to place spoil on either side of ditch, and overload release.

The city reserves the right to reject any or all bids and award the contract to the best interest of the city.

WM. R. GALT, City Manager.
B. H. BRIDGES,
City Auditor and Clerk.

Bids close June 29, 1927.

Sanitary Sewer System

Haines City, Fla.

Sealed proposals for furnishing material and constructing sanitary sewers, sewage-disposal plant and sewage pumping stations for the City of Haines City, Florida, will be received by the City Commission at the City Hall until two (2) P. M. June 29, 1927.

The work will consist of approximately 4.8 miles of sanitary sewers, sizes 8 inches, 10 inches, 12 inches and 15 inches; 1.6 miles of 6-inch, 8-inch and 10-inch cast-iron force main, three sewage pumping stations and disposal plant.

Each proposal must be accompanied by a certified check, payable to the City of Haines City, Florida, to an amount equal to five (5%) per cent of the bid, as a guarantee that the contract will be entered into if awarded. A bond of one hundred per cent (100%) of the contract price will be required. Payments will be made in cash on monthly estimates.

Plans and specifications are on file in the office of the City Manager and City Engineer at Haines City, Florida, and with Wiedeman & Singleton, Consulting Engineers, 1404 Candler Building, Atlanta, Georgia.

Bidders may obtain copies of specifications from the above addresses by enclosing certified check for twenty-five (\$25) dollars, payable to the City of Haines City. If blueprints are desired they may be had at the cost of printing. If plans, specifications and blueprints are returned within thirty days after opening bids the check for twenty-five dollars will be returned.

JESS P. FERRILL,
City Manager.
JOE J. HILL,
City Engineer.

WIEDEMAN & SINGLETON
(Successors to Paul H. Norcross),
Consulting Engineers,
1404 Candler Building, Atlanta, Ga.

Bids close June 14, 1927.

Water-Works and Sewer Improvements

Gainesville, Fla.

Sealed proposals addressed to the City Council, Gainesville, Florida, and marked "Proposal for Construction" will be received until 8 P. M. June 14, 1927, for furnishing material, equipment and labor in constructing certain work as follows:

Water Works, Sanitary and Storm Sewer Improvements, including 20,500 lineal feet Cast-Iron Pipe, 6 to 12 inches in diameter; 20,833 lineal feet of Sanitary Sewers, 6 to 10 inches in diameter, and 7685 lineal feet of Storm Sewers, 12 to 36 inches in diameter, together with other necessary appurtenances.

Each bid to be on blank forms furnished by the city and is to be accompanied by a certified check or bidder's bond issued through a local agency for five per cent of the amount of the bid.

The right is reserved to reject any and all bids.

Plans and specifications may be seen at the office of the Engineer, and specifications may be obtained from the Engineer upon payment of \$2.00 to cover cost of reproduction.

CITY OF GAINESVILLE, FLORIDA.
JOS. E. WAUGH,
City Comptroller.

GEO. H. CAIRNS,
Consulting Engineer.

Bids close June 15, 1927.

Excavating Trenches and Laying Water Mains

Baltimore, Md.

Sealed proposals, in DUPLICATE, endorsed "Proposals for Excavating Trenches and Laying Water Mains in Wagner's Point and Fairfield Roads," addressed to the Board of Awards of Baltimore City, will be received at the office of the City Register, City Hall, Baltimore, Maryland, until 11 A. M., Standard time, Wednesday, June 15, 1927, at which time they will be publicly opened and read.

Plans and specifications may be obtained at the office of the Water Engineers, Room 205 City Hall, Baltimore, Md., on and after June 3, 1927. A charge of \$10 will be made for each set of plans and specifications, which will not be refunded.

All bids must be accompanied by a certified check of the bidder on a clearing-house bank for FIFTEEN HUNDRED (\$1500) DOLLARS, made payable to the order of the Mayor and City Council of Baltimore, and the successful bidder will be required to give satisfactory bond for the faithful performance of the agreement equal in amount to the value of the contract.

The Board of Awards reserves the right to reject any or all bids.

GEO. F. WIEGHARDT,
Water Engineer.
B. L. CROZIER,
Chief Engineer.

Dredging

We have a proposition consisting of continuous dredging at one location lasting 6 months to a year or longer.

No Pontoons or shore line required. Material to be loaded on barges. Contractor to furnish Dredge, necessary Barges, tender and Tug for towing material.

Tow will be about 15 to 20 miles.

Dredge with cutter head required. Maximum depth of dredging 20 feet.

Essential that Dredge be equipped with washer and screen in order to deliver clean material to barges.

Dredging to be done in Southern waters near New Orleans, La. Safe harbor.

We are prepared to award contract for this work on long-time employment on yardage basis, and will agree to take output of dredge working on single shift, with minimum of 1000 cu. yds. per day.

If interested, write to address given below, stating class of equipment you have available for dredging and towing, number and size of barges and with description of same. Address A 422, care of Manufacturers Record, Baltimore, Md.

Bids close June 28, 1927.

Pipe and Fittings

Tallahassee, Fla., June 3, 1927.

Bids will be received by the City Auditor and Clerk to 12 o'clock noon June 28 for the following Pipe and Fittings, F. O. B. Tallahassee; details may be had upon request:

WATER PIPE.
3,850 ft. 12-inch Cast-Iron Pipe and Fittings.
3,150 ft. 10-inch Cast-Iron Pipe and Fittings.
1,560 ft. 8-inch Cast-Iron Pipe and Fittings.
23,000 ft. 6-inch Cast-Iron Pipe and Fittings.

GAS PIPE.
550 ft. 8-inch Cast-Iron Pipe and Fittings.
1,350 ft. 6-inch Cast-Iron Pipe and Fittings.
3,504 ft. 4-inch Cast-Iron Pipe and Fittings.

State in bid the freight rate per ton on which the bids are figured, date of delivery and class of pipe.

The city reserves the right to reject any and or all bids and award the contract to the best interest of the city.

WM. R. GALT, City Manager.

B. H. BRIDGES,
City Auditor and Clerk.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

FOR SALE—Forty to fifty million feet virgin timber, largely White Oak and Poplar. Easily accessible, where operating costs can be held at minimum. Also larger acreage of attractive Gas and Oil rights. Correspondence and inspection of property solicited by owners. I have good values to offer, but am not interested in brokers' propositions, as wish to give investors opportunity at first cost. Address W. E. AVERILL, White Sulphur Springs, W. Va.

COAL LANDS AND MINES

THE STRIKE in the Union Coal Fields means a very profitable business for West Virginia. I have several very desirable coal-mining properties for sale in the Fairmont District.

G. B. HARTLEY,
Fairmont, W. Va.

TIMBER AND CUTOVER LANDS

NORTH CAROLINA is in the public eye. Ride through the State on our new hard-surface roads and you will fall in love with our great possibilities; scores of millionaires attest vision.

We offer 17,000 acres of timber and cut-over lands located in Carteret County, N. C., at bargain prices, whole or part; terms if wanted. Here the State is constructing concrete roads over this property, which lies on the water, where fish and fowl are plentiful, while on the back bear and deer are in nature's home, the timber. Financial returns at once, and the future rich with timber growth, agricultural pursuits and other possibilities. Write for full particulars. Newby, White & White, Hertford, N. C.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

A WORD TO THE WISE!

Take advantage of buyers' market in Florida while owners of real estate need money. We offer business and home property, groves and river fronts.

GOODWIN & BAKER,
Fort Pierce, Florida.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. When the advertisement contains a number of long words proper allowance should be made. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

FLORIDA

"FLORIDA HAS MADE THE GREATEST COMEBACK IN THE HISTORY OF THE WORLD."

C. W. Barron, International authority on Finance and Economics, in Wall Street Journal. Yes, we've made the safe landing, but it's still "Bargain Time" in Florida if you hurry; for instance, 400 acres, fertile land, 17 miles north of Tampa, \$20 per acre, half cash. Send today for booklet and list of Investments, Groves and Farms.

TAMPA-WEST COAST REALTY CO. (INC.),
Tampa, Florida.

KANSAS

FOR SALE—Farm, 145 acres, near Waco, Mo., in Kan., in the lead and zinc mining district; \$100 per acre. Address Mrs. Jas. Hopper, 711 W. Fourth St., Pittsburg, Kan.

NORTH CAROLINA

If interested.

FOR HOME OR FOR INVESTMENT

In the great and rapidly developing STATE OF NORTH CAROLINA, especially in its leading city, Charlotte, or in a Southern Cotton Mill or Southern Mill Stocks, write to

F. C. ABBOTT & CO.

Realtors and Investment Bankers.
Nearly thirty years in Charlotte.

FARM, FRUIT AND TRUCK LANDS

TEXAS

TEXAS "WINTER GARDEN" LANDS.

8000 acres of virgin soil in the fertile valley of the Nueces River, Dimmit County, Texas, are being subdivided, developed and offered to the public in 20 and 40 acre tracts, CLEARED, GRUBBED, PLOWED and WATERED. These lands especially adapted for the growing of CITRUS FRUITS, WINTER VEGETABLES, Staple Crops—a harvest each month in the year. Fine irrigation system. Write TODAY for literature and prices.

BERMUDA LANDS COMPANY,
Houston Building,
San Antonio, Texas.

SUB-DIVISION PROPERTY

BILOXI, MISS., 1591 feet facing the Gulf. Full Riparian Rights; 486 acres running through from Gulf of Mexico to Back Bay of Biloxi; 8000 feet frontage on Back Bay. Most beautiful subdivision on the coast. Price and terms exceptionally good.

W. E. STEWART,
402 Tribune Building,
Terre Haute, Ind.

BUSINESS OPPORTUNITIES

FOR SALE—Huge deposit high-grade soapstone and well-equipped plant on railroad. Price very reasonable. JOHN C. JAMISON, P. O. Box 405, Roanoke, Va.

A LIBERAL INTEREST will be assigned to the manufacturer or promoter who develops and markets the Revolving Road Planer, covered by patent No. 1629678. Address No. 6748, care of Manufacturers Record.

FILLING-STATION LOCATION; intersection two main concrete State highways, with steady all-year traffic, both local and tourist. For prices write

C. E. DAVIS, Walnut Cove, N. C.

HOTEL SITE FREE.

Small town in South Georgia on the central Dixie Highway and Seaboard Air Line Railroad is anxious for a modern hotel. Centrally located; 600,000 population in radius of sixty-five miles. Commercial and tourists' trade. Some money and \$7000 hotel site free to reliable party who will build modern hotel on site. Address No. 6746, care of Manufacturers Record.

BUSINESS OPPORTUNITIES

COCA-COLA BOTTLING PLANT located in mid-western city. Direct franchise. Modern plant. Surfaced roads. Will bottle 5000 gallons Coca-Cola and gross 60,000 cases this year. Price \$35,000. Address No. 6722, care Manufacturers Record.

FINANCIAL

WE OFFER First Mortgage Loans to net 7%, secured by desirable city property. **STANSBURY REALTY CO.**, 1104 Candler Building, Atlanta, Ga.

DON'T MISS MONT EYRIE ADVERTISEMENT on page 131. Also see page 124, May 26 issue. It is opportunity calling.

FACTORY SITES

SITES AT BATON ROUGE, Southernmost Mississippi River location above high water; seventh port, strategic rail shipping point, natural gas; location world's largest oil refinery. Alfred D. St. Amant, Baton Rouge, La.

WATERFRONT SITES

22 miles from New Orleans
High land, on Tchefuncta River; direct waterway connection to shipside, Mississippi River, New Orleans. Low-priced acreage. Ideal climate. Write for pamphlet. **M. D. CONNERS**, Covington, La.

FREE MANUFACTURING SITE, with brick building, railway siding, in good Piedmont section town, with modern conveniences, excellent facilities and cheap labor. Only enterprises of merit considered. Write **C. E. DAVIS**, Walnut Cove, N. C.

TAMPA, FLORIDA—the logical distributing point. **HARRIS TERMINALS**—fully equipped with railroad tracks on both the Seaboard and Atlantic Coast Line railroads. We solicit your inquiries for **WAREHOUSE and FACTORY** sites. Prices and terms reasonable. **HARRIS REALTY CO.**, Realtors, 105 W. Cass St., P. O. Box 585, Tampa, Florida.

FOR SALE—Factory site, with water power, 175 to 500 acres, with two to four hundred horsepower available; clear water, suitable for bleaching; located on or near two main-line railways and two State Highways and near town of 4000 population. Unlimited additional electrical power available cheap. For price, terms and particulars address **J. W. Maynard**, Cheraw, S. C.

WASHINGTON, D. C. Industrial zone, 2 miles Southeast Capitol Building, 596 feet adjacent B. & O. R. R., 210 feet fronting Sumner Road, 82,347 sq. ft. at 30c per sq. ft.; 10 p. c. off for cash. Concrete roads, sewer and water connections. Improving prospects. River wharfage 1½ miles South of Capitol Building may be arranged. **W. H. BRYSON**, 1017 Clinton Street, Philadelphia, Pa.

HOUSTON, TEXAS, is one of the fastest growing seaports in the world. It has seventeen railroads and is now visited by fifty-two oceangoing steam ship lines. These lines come to the harbor through the Ship Channel which has thirty-five feet of water. Fronting on this Ship Channel for over seventeen hundred feet, I have for sale one hundred and sixty acres of land at One Hundred Dollars per front foot. This is an ideal location for one or more factory sites. If interested, write for full particulars to **H. N. ATKINSON**, Houston, Texas.

INDUSTRIES WANTED

MR. MANUFACTURER:
Before deciding definitely on a Southern location don't fail to investigate Altavista. No other young and growing city in Virginia can offer such advantages as our good town.
Virginia City Basic Freight Rate. Ideal climate. Abundance of labor and strikes unknown here. Free Manufacturing Sites.
For information apply to **ALTAVISTA CHAMBER OF COMMERCE**, Altavista, Va.

INDUSTRIAL PLANTS

FOR SALE—Quarry and crushing plant, with capacity of 700-800 tons crushed stone daily. Can be increased to 1500 tons with small expenditure. Located in Central Georgia. Good demand for products. Can be purchased at reasonable price. Address inquiries to **MACON CRUSHED GRANITE COMPANY**, Macon, Ga.

FOR SALE—Furniture Factory with well-established trade. Located in Western North Carolina at a good shipping point and adjacent to large hardwood lumber supplies on low freight rates. Reason for selling, present owners wish to retire from active business. Address inquiries to No. 6750, care of Manufacturers Record, Baltimore, Md.

PATENT ATTORNEYS

PATENTS—Booklet free. Highest references. Best results. Promptness assured. **WATSON E. COLEMAN**, Patent Lawyer, 724 Ninth St. N. W., Washington, D. C.

PATENTS--TRADEMARKS--COPYRIGHTS Charlotte Office convenient to South. **PAUL B. EATON**, Registered Patent Attorney, 406 Independence Building, Charlotte, N. C., and 903 Grant Place N. W., Washington, D. C.

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PATENTS--TRADEMARKS--COPYRIGHTS Write for our free Guide Books, and "RECORD OF INVENTION BLANK" before disclosing invention. Send model or sketch and description of your invention for our inspection and instructions free. Terms reasonable. Highest references. **VICTOR J. EVANS & CO.**, 712 Ninth, Washington, D. C.

INVENTORS—Send sketch or model of your invention for opinion concerning patentable nature and exact cost of applying for Patent. Book, "How to Obtain a Patent," sent free. Gives information on Patent procedure and tells what every inventor should know. Established 25 years. **Chand-lee & Chand-lee**, 412 Seventh St. N. W., Washington, D. C.

SITUATIONS WANTED

CONSTRUCTION superintendent, civil engineer, 20 years' experience, including hydro-electric developments, highways, railroads, bridges, dredging, etc. Available at once. Moderate salary. **L. E. Frissell**, Box 178, Sulphur Springs, Florida.

POSITION WANTED OR OPPORTUNITY. Sales Manager and Executive, 12 years with prominent corporation, Atlanta headquarters, desires change for larger opportunity. Particularly qualified in handling sales force and organization work. Habits and health good; educated. Only high-class proposition considered; unqualified recommendations. Address No. 6745, care of Manufacturers Record, Baltimore, Md.

MEN WANTED

SALESMAN to sell Quality Goods; straight commission; exclusive territory for establishment of permanent business. Selling complete line of fire extinguishers, nationally advertised; some open territory in the Southeastern States for the right men. **FOAMITE-CHILDS CORPORATION**, 119-A Spring Street, Atlanta, Ga.

GENERAL SUPERINTENDENT OR GENERAL MANAGER Boiler, Tank, Steel Plate and Structural Steel plant. Am 46 years old; 19 years' practical experience from rivet heater through all departments to present executive position in boiler and structural steel plant in South. Address No. 6749, care of Manufacturers Record, Baltimore.

MEN WANTED

SALESMAN WANTED—Our proposition offers greater earning possibilities to the real salesman than is offered to him in most any other line. A credit and collection service with a bonded recovery obligation. **American Security Credit Company**, General Offices, St. Louis, Mo.

WANTED—Experienced sewer foreman for work in Huntington, W. Va. Must be a number-one man for wet work. Give experience and salary expected.

HUGHES & KEEGAN, Real Estate Exchange, Richmond, Va.,

or **HUGHES & KEEGAN**, P. O. Box 1765, Huntington, W. Va.

EFFICIENCY MAN.

Thoroughly trained, capable of observing operations in a large metal-working plant in Ohio, who can eliminate unnecessary men and set equitable bonus rates. Unlimited opportunity for man of demonstrated ability, with a record of quick results. Address all communications, stating experience, age, when available, No. 6744, care of Manufacturers Record, Baltimore, Md. Information treated confidentially.

IF YOU ARE OPEN to overtures for new connection and qualified for a salary between \$2500 and \$25,000, your response to this announcement is invited. The undersigned provides a thoroughly organized service, of recognized standards and reputation, through which preliminaries are negotiated confidentially for positions of the caliber indicated. The procedure is individualized to each client's personal requirements; your identity covered and present position protected. Established sixteen years. Send only name and address for details.

R. W. BIXBY, INC., 103 Downtown Bldg., Buffalo, New York.

CONTRACT WORK WANTED

MANUFACTURING PLANT, well equipped and located, wants something to manufacture, preferably heavy machinery. All facilities necessary, including engineering department, patent shop, foundry with a capacity for single castings in either gray iron or semi-steel up to twenty tons; well-equipped machine shop, erecting floors, etc. No. 6683, care of Manufacturers Record.

MACHINERY AND SUPPLIES

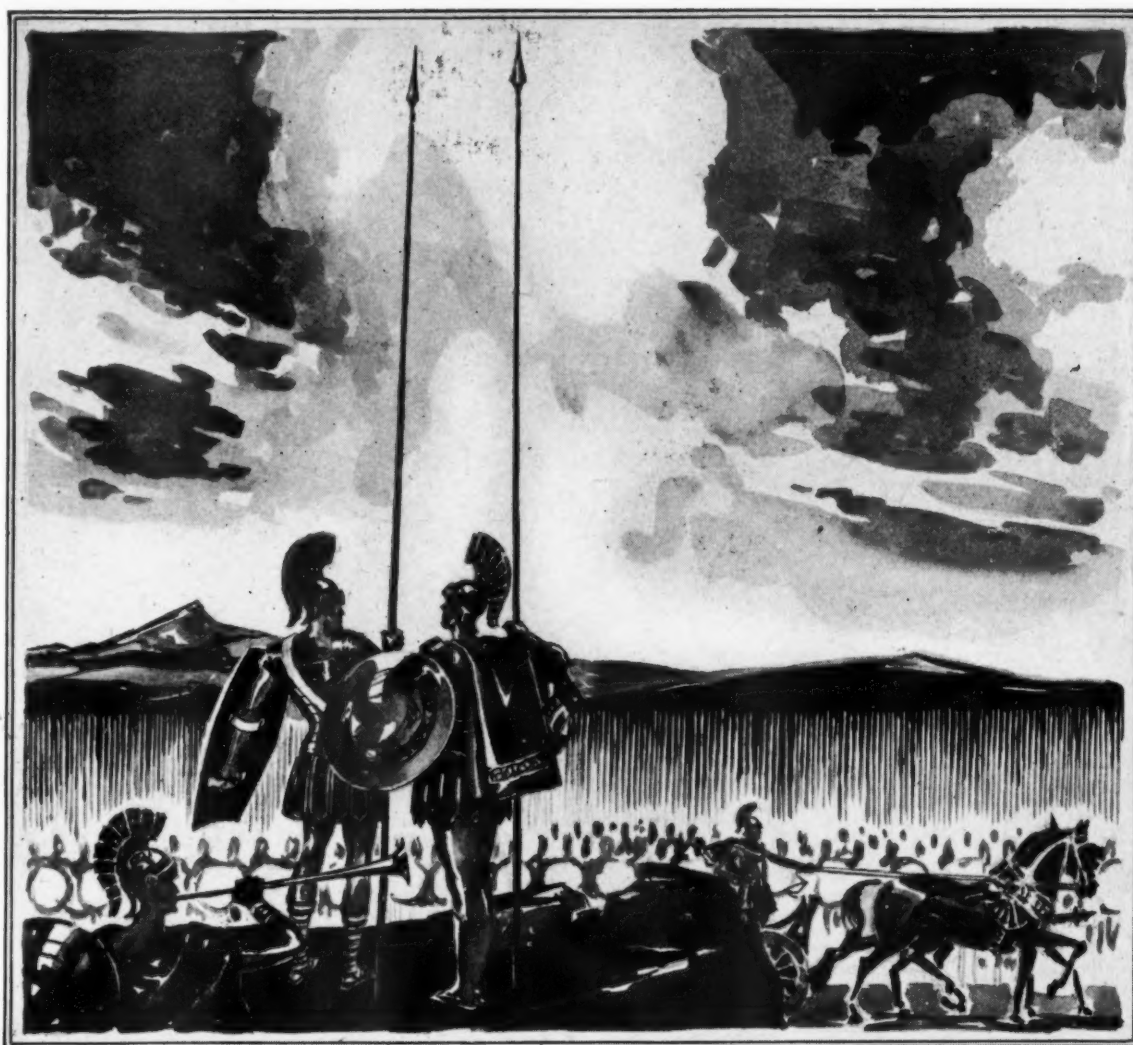
ICE-MAKING AND REFRIGERATING MACHINERY—New and rebuilt. Our prices on new Waynesboro Refrigerating equipment, delivered and installed, very low. Buy direct from the manufacturer. All sizes. Get our prices on your requirements. **GEISER MANUFACTURING COMPANY**, "Department E," Waynesboro, Pa.

OFFICE EQUIPMENT

FLORIDA OFFICE EQUIPMENT.

DO YOU NEED Desks, Safes, Stationery, Cabinets, Stenographers' Desks and Chairs, Electric Fans, Typewriters, Adding Machines, Cash Registers, Underwriters' "A" Label Steel Safes, with interiors; Ink-Well Sets, Desk Pads or any kind of Office Equipment? Never since the Government offered for sale surplus equipment have you had the opportunity you now have to buy first-class equipment at such low prices. Hundreds of Real Estate Offices, equipped with the best office furniture, have been discontinued, and this furniture may be had at half the usual retail selling price. Don't confuse this equipment with what is usually termed "second-hand" goods. Write us immediately, giving description of what you need, and we will send you full particulars and prices. Don't delay, but act quickly, for Florida is coming back, and coming back strong, and never again will such office furniture be available at so low a price.

OFFICE ECONOMY INDEX, INC., Tampa, Florida.



Light—Your Twenty-Foot Spear

Twenty-foot spears in Alexander's army, when ten-foot spears were the fashion. Twenty-foot spears—and victory.

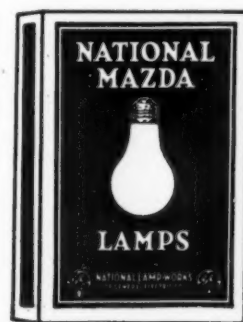
Every manufacturer today has at his command the spear of light, and that spear may be the ten-foot variety (just enough light to see by) or it may be the twenty-foot kind (enough light to see quickly and surely all the time).

If competition is a battle, your business surely deserves the kind of equipment that wins. With light you can reduce production costs, decrease spoilage and lessen accidents.

Ask your electrical contractor or your electric lighting company to tell you just how to put your factory lighting on a productive basis. Or write us direct.

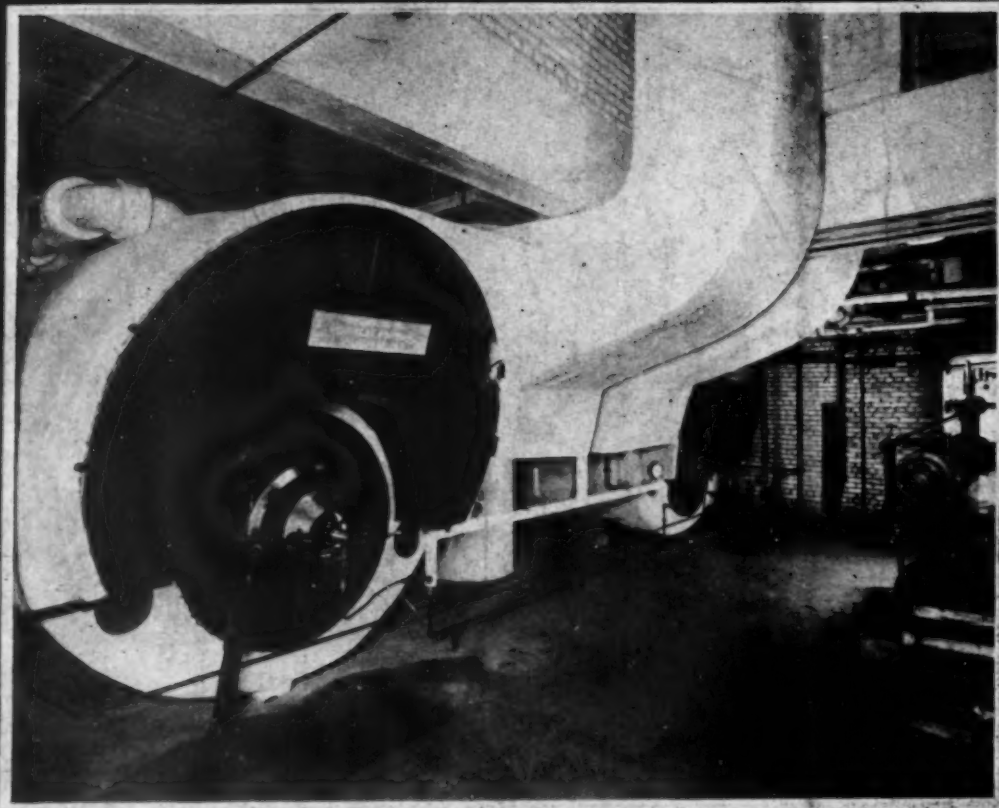
NATIONAL LAMP WORKS of General Electric Company, Nela Park, Cleveland

The mark MAZDA is not the name of a product, but the distinguishing mark of a Research Service which has been the means of improving incandescent lamps since 1910.



A GENERAL  ELECTRIC
PRODUCT

National MAZDA Lamps



TITUSVILLE SCOTCH BOILERS

Here is a typical Titusville Scotch Oil Boiler installation in the warehouse and offices of the National Grocery in Jersey City.

Note the neat, compact appearance—an advantage made possible by the close-knit design of Titusville Scotch Type Boilers.

They save one-third of the floor space ordinarily required, consume a great deal less oil and are so efficient that only one boiler has been required to heat the entire building.

It is just such performance advantages as these that have established a country-wide preference for Titusville Boilers.

The Titusville Iron Works Co.

TITUSVILLE

PENNSYLVANIA

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DETROIT, MICH.
204 Owen Bldg.

ST. LOUIS, MO.
401-2 Bank of Commerce Bldg.
WASHINGTON, D. C.
Woodward Bldg.

PITTSBURGH, PA.
Farmers Bank Bldg.
LOS ANGELES, CALIF.
940 Maple Ave.

BUFFALO, N. Y.
Marine Trust Bldg.
CHICAGO, ILL.
1124 Harris Trust Bldg.

